

<J12> DNA
 <J13> Glycine max

 <J23> unsure at all n locations
 <400> 11835

 catgctatat gtagcaaagt catcgatcct atgaagtatg atgagctgga atatgacgcc 60
 gcaattatat tgtgccagct ggagatgtat gtctctctctg cctactatga catcatgatn 120
 tactcgatgg tgcctctagt cagagaaatc aaatatgggtg gtcttgggtta attgccatgg 180
 atgtaccoga ttgagcgata catgaagatc ttaaagggga tactaagaat ctctatcgtg 240
 cacaatcatc tattgggtgag ag 262

<J10> 11836
 <J11> 432
 <J12> DNA
 <J13> Glycine max

 <J23> unsure at all n locations
 <400> 11836

 araacgtntc actcggatgt cggattcaag cgcataatat atcgagacgc tcgatattga 60
 acaatggaag ctcttgagca attccaatgg tcataactct taactcggat gtccgattca 120
 ggcgcataat atctcgagac gtccgaaatt gaacaatgga agctctcgag caattcaaat 180
 tgtcataact tttcactcgg aggtctgatt caggcacata atatttcgag acgctcgaaa 240
 ttgaacaatg gaagctcttg agcaattcat atggtcataa cttttcactc ggaagtccga 300
 ttcatgcgca taatatatcg agacgctctg aagttaacaa tggaagctct ttagcaattc 360
 acatggtcac aactcttcac tcggatgtcc gatcacgcac ataatatatc gagacgctcg 420
 catttgaaca ac 432

<J10> 11837
 <J11> 324
 <J12> DNA
 <J13> Glycine max

 <J23> unsure at all n locations
 <400> 11837

 ttgtgagccc tgggtgtgant gaggntccct cttcagataa atgtgaggcc cttcaccatt 60
 aggtctcttg tgatgctccg tcaaccttcc agcaaaataa agaggactct cccgtccaac 120

ataatctttt agaatcccag ctagtctctgt ctgcaattga naacatccat ctcagagaat 180
 ttccattggt ttcccttcca ggaaactaca ttccattgta tggcttctga atgtagttaa 240
 catacaatga atgagtgacg tgcattgatg ttagagagac agaaagttat tcttaatata 300
 attgagaaaa gaatgacatg gagt 324

<210> 11838
 <211> 401
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11838

tctgctggtc aatttttagtg tctcgatata ttattcacct gaatctgaca tccgtgagat 60
 aagttatgac catttgaatn tctcgagaac ttccggtgat caatttcgag catctcgata 120
 tgttatccac ctaaactcga catccgattg aanagttatg aaccattgaa tntctcgaga 180
 gcttccggtg ntcaatttcg agcatctcga tatattatc gcctgaatct gacatccgtg 240
 tgataagtta tgaccgatta aatatgtcaa catcttccgg cgttcaattt cgagcgtctg 300
 gatttattat ccacctgaac tggacatccg ttcgaaaatg tatgaccatt tgaattctcg 360
 agagcttccg ttgttcaatt tgagcgtctc gatattattat g 401

<210> 11839
 <211> 294
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11839

gtgtctccat ggngagcagc tagtgtgtag tgaggaaaa agatggaatt atgaggttgt 60
 gtgtagacta ccgccagttc aataaggtga cgaataagaa taagtacctt ttccctagaa 120
 taaatgacct tatggaccag ctgataagag cttgtgtgnt tagcaagata gacettangc 180
 caggttacca tcagatctaa tggaagtctt gaaatattcc gaagactgcc tntacgaccc 240
 gttatagtaa ctatgagtat ctagtatcta gtatttttct tcaatgtgac taat 294

<210> 11840
 <211> 265
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11840

acaatggtga gttggtgtg gataagcaag tgttacttac attctccata gcanagtatg 60
tngatgatgt gaatngtgat atgggtccca tggaagctgg acatatgtng ctnggaagac 120
cttggaata tgatagaggt gttgtccaca atggngtcac gaatcgatat tagttcttgc 180
ataaaggtaa naaggtagtt ctacacctcg tctccaagtg aggtgtgtga ggatcatata 240
acaatgagat taanaagaga aagag 265

<210> 11841

<211> 464

<212> DNA

<213> Glycine max

<400> 11841

acatggggta cgaatgaggc ccatgatata tcgagaggct cgaaattgaa aaatggaagt 60
tctcgagaaa ttcaaatggt cataactttt aacttggatg tccgattcac gcacataata 120
tatcgagaca caaaaattg aaaaatggaa ttctcgagaa attcaaatgt tcataacttt 180
tgctcgaat gtcagattta ggcacataat atatcgagac gctcgaaatt aaacaagaaa 240
gctctggtec aattcaaacg gccataactt ttgacatgag tgtatgattg aggcccatga 300
tatatagaga acgctcgaaa tgaataatgg aagttctcga gaaattaaaa ttgtcataac 360
tttctactcg gatgtccgat tcagacacat aatatatcga gacgcttgaa cctaacaagg 420
aagctctggt ccaattcaga gggccataac ttttgacatg ggtg 464

<210> 11842

<211> 259

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11842

gttgatgcaa gaaggtcatc caatggctct atttagttaa nnagtaagtg gtccctacct 60
taactattca acttatgata nagagtngta tgccttagta cgggcttnga aaacatggca 120
aactacctt tateccaagg aatntgtcat tcatagtgac catgagtncc tcanatatat 180

caaggggcaa ggcaagctta acanaaggca tgcgaagtgg ggtggaatcc tagagcaatt 240
cccttatgtt atcaaacad 259

<210> 11843
<211> 184
<212> DNA
<213> Glycine max

<400> 11843
agcagagcaa ttatgacctc tccagcaaca gatacaaccc tggatggagg aatcaccta 60
acctcagatg gtccagccct cagcaacaac aacagcagcc tggctccttc ttccagaatg 120
ctgttggtccc aaacagacca tacattcctc caccaatcca acaacagcaa caaccccaga 180
aaca 184

<210> 11844
<211> 326
<212> DNA
<213> Glycine max

<400> 11844
gaggacacat gaacgataac acaattcatg gcgctccgat aaaggggttg agaatggata 60
attacactaa gcaatcacta ctcatagctc caaactcgaa ggtggaggac acatgaacga 120
taacgcaatt catggggctc cgaaaagatt gataatggag aattgctcta cgcaatcact 180
acgcatagct ccatacgcga aggtggagga cacatgaatg aaaacgcaat tcatggggct 240
ccgaaaagat tgagaatgga gaattgcact aagcaatcac tacgcatagc tccaaacttg 300
aacgtggagg acacatgaat gaaaat 326

<210> 11845
<211> 259
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 11845

tagagtctga atagtctgtg cagtctgacc atctcgttga ggatgataag ctgaactaat 60
cttcagcttt gtccccaagg cttcatgtaa acttgtccac aatcgccaag tgaaccttgg 120
atccctgtca tatacaatac tacgaaagaa ttccatgcca ctttactact tacttgatat 180

acaactccac tagctnttcc attctatacc tcatattcac tgggataaca cgagccagat 240
 tggtagagtcg atctactat 259

<210> 11846
 <211> 450
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 11846

cgcttatcc cactaggtgg tgcggttac atggatcaac tccaccata atgtttctat 60
 aagtaccata cttctatcca aatcattaag ttcgagatcc ttnttgataa cctctcttat 120
 agtctctgtg ggtcttcttc tgcctcgaat tgtttgtctt ctctccatct ggtctactct 180
 cctcactaca gagtctaccg gtcttctctc tacatgccca aaccacctaa gtctattgtc 240
 cateatcttc tctacaatag gcgtactcc aacctctct ctaatagctt cgtttctaat 300
 tctatctcgc cgagtcttac cacacatcca ccgcaacatg ctcatctncc ctacacctac 360
 tttatttctc atgtggctct tgaccgccca acattctggt tcgtacanaa tcgccggtct 420
 ttaccgcagt ccgataaact tttctttaa 450

<210> 11847
 <211> 438
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 11847

ctctctcatg taatgatgta gaatctacag ccaaagactt caaaaaaggg ggtcattccg 60
 aaacatctcc tgtagtctt caagaagggt agaaattaga agatttcagt gcaaatgagt 120
 ctcatctgac tgctaaacct gatctccac agctcaattc tggaatcaat cagagaccaa 180
 aaagggtcac taaacctccc gaaagatagc gatttgaaga catggctgcc tatgcattac 240
 atgcagctga agaaatagat tcaaatgaac cagccactta ccaagaagct atcaatcatc 300
 ctgaagctga nnaattgggt tagctttgaa agaggaaatg gaatctttgt ataagaatca 360
 gacctggaaa ctttgtgaac tacctgaagg aagacatgtg gtaggtngca agtggatatt 420
 caagaggaaa cctgggtct 438

<210> 11848
 <211> 377
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11848

tgctcaccaa cacaagataa gaatccctca tgttggttca tgtaaaccctc ttcttctaga 60
 tcaccattta ggaacgcgct gtccacatcc atttgatgca gctcaagatc aaaatgagct 120
 actaatgcca gaattactcg aagagagtct ttcttagata caggggaaaa ggtctctctg 180
 taatcgattc cttctctttg agtgaatcct ttagcaacaa gtcttgcctt atgtctctca 240
 atgttgcctt ctgagtcctt ctttggtttg aagaccctac tacatccgat ggcttntcac 300
 caacaggcaa ctcaacgaga tcccaaactt ggtagatgc catagaatcc atctcatccc 360
 tcatagcatt ataccac 377

<210> 11849
 <211> 376
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11849

acgggactga attagacatc cgagtaaaaa gttattgtag tttgaagatg ctacagagcct 60
 taccattcaa tctcgagcgt ntcgatatat tacgggacta aatcagacat cagagtaaaa 120
 agttaatgtc atttgaatta tctcagagct tcgggtattcc atttcgagcg tctcgatata 180
 ttacgggagt caatcagaca tccgagtaaa aagttactgt cgtttgaatt ngctcagagc 240
 ttcgataatc aatttcgagt gtctcaatat attacgcgac tcagtcagac aaccgagtaa 300
 aaagtattgt cgttggaatt tgctcaaagc ttcngtatte aatttcgagt gtctcgacat 360
 attatgggac tcaatc 376

<210> 11850
 <211> 352
 <212> DNA
 <213> Glycine max

<400> 11850

tggatttctt tttagtaggg agtctatcct tcctaagatg gagccaaacc cactcaccct 60
 cattaagaat tagctttttt ctctctctat tgtctttagt tgaatacacc tttgttggat 120
 tctctatttg gttcttaacc ttctcatgca acttctttac aaactctgac ctagattccc 180
 ctctcttatg tataaaaaaa gtgtccagtg gaatgggaat gaggtctaata ggtgttaggg 240
 gattgaaccc acctcaaaaag gggattgctt ggtggttcta tgagtcccc tgttgtatga 300
 aaattctaca tgaggaagat actcatccca agacttatgg ttgtctttca ga 352

<210> 11851
 <211> 447
 <212> DNA
 <213> Glycine max

<400> 11851
 agcttctctg aagtcaaacc acacacatat atatatcatg acatgggaca aaatagtctt 60
 tataaaaatg ttttcccag aacaagtaca cgtaaattat aacaaatgaa caaacaacaaa 120
 agcatacttt cattgtctcc tatcaaagt atcctgagaa aacaacacaaa agtgagtcac 180
 ttacaggga caaattcttc cagaactgaa gatcagtcctt aggaggtctca actatcttgg 240
 tggcccaaca gaacaacatt atgagagagc cacatgcaag ggagagagtt gaggtaagcc 300
 aagggtatgg gaatgcattc atcaccttct tgttataaat gttgaacacc acattcagtg 360
 cccaccatgt agcaaagtat attccaatct tcaccttctt agcagcctct gatggagccc 420
 cagccctccc aacctttgat ctatcag 447

<210> 11852
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 11852
 acttgccagg tgattcaaaa tgaaaaaggt ctctacattg tttcaattag aagatcatgg 60
 aggtaaattt cacaatgact cttttgaaaa cttttgtgaa gaaatgtat ttcaccacaa 120
 tttttcagcc ccgtcagcac ctcaacagaa aggtgttgtg gagaggaaaa atatatccct 180
 tgaagaaggt gaaagaacac ttctaaatga aacaaggttg cgtaagtatt tttgggcaga 240
 tgttgtacat actatatgtt acacctttaa caaagtactt attagacctt tctgaataa 300

aaatccttat gaaccgtatt aaggaagaaa actgaacatc tctcacctaa tagttttttt 360

gcaagtattt tgtttttaca atggtaa 387

<210> 11853
<211> 378
<212> DNA
<213> Glycine max

<400> 11853

tgcgcgcacg gagtttttcg actatgctct tgtgtggtgg aacaagctac aaaaggagag 60

agcaagaaat gaagagccaa tggttgatac atggacggag atgaaaaaga tcatgaggaa 120

gcggtatgtg ccggctagtt actcaaggga cttgaaattc aagctccaaa aactaaccca 180

aggcaacaag ggggttgagg agtatttcaa ggaaatggat gtgctcatga ttcaagcaaa 240

tattgaagaa gatgaggagg taactatggc tcgatttctt aatggtttga ctaatgatat 300

ccgtgatatt gttgagttgc acgagtttgt tgaaatggat gatttgcttc acaaagcaat 360

ccaagtggag caacaatt 378

<210> 11854
<211> 354
<212> DNA
<213> Glycine max

<400> 11854

agcttgaaat tgaacatcag aagctctcaa gatattcaaa tggtcataac ttgtcacaag 60

gatgtccgat tctggcgcat cacatatcaa gacgctctaa attgaaaatc ggaagctctc 120

gcgaaattca agtggtcata acccgctatt cggatgtccg attcaggcac ataatatatc 180

aagatgctcg aaattgaaca acgaatgtct tcgagaaatt caaatgggtca taacttgtca 240

cacggatgtc cgattcaggc gcataatata tccaaacgct ctaaattgaa catcggaagc 300

tctcgagaaa ttaaatggtc atacttgtac accgaagacc gatctgcgca taca 354

<210> 11855
<211> 338
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 11855

tcctctaagn cacctgctgc atgcaagctt gcgaattttg gcgatatcag gggacatatg 60

cttgatgact gcagtgagaa caccaacctt ccacgccttc tttaagtcac gtgggttactc 120

gtatagagga gggccttgat ctttatgtag accaatttga tgccaccatt ctccattccc 180

agttggccac catggtggaa gaacacctt ctctattggg aacctcctct gatgaggatc 240

acagtgtgcg ataagtgtcg acaagataga acccaagggt gtgtccttgt aactcttgca 300

aggtgtgtgg tgtcgaccaa tggaactgat ccatcatt 338

<210> 11856
 <211> 405
 <212> DNA
 <213> Glycine max

<400> 11856

tccaatgtat aatttcgagc gtcttcatat attatgcgcc tgaatcggac ctccgagttg 60

aaagttatga ccatttgaat ttctcgagag ctttcgttgt tcaatatcga gcattctgat 120

atattatgcg gctgaatcag acctccgagt gaaaagttat gaccatttga attgctaaag 180

agcttcaatt gctcaatttc tagcgtctcg atatattatg cgcttgaatc ggacctccga 240

gttaaaagtt atgaccatta gaattttttg aaagcttccg ttgttcaatt tctggcgctc 300

tgatatatta tgcgcttgaa tcggacctct gagtgaaaag ttatgaccat tcgaattttt 360

tcagagcttc cgttgttcaa tttcaagcgt ctcgatatat tatgc 405

<210> 11857
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 11857

tcattgctct gctattgatc tatcaaggaa tccagtctct catgaccgaa ttaagcacat 60

tgagactaaa ttccattttc tgagagatca agtggctaaa ggaaagggtta agctagtgc 120

ttgtataatt gaggttcagc tagctgacat aaagactaag gctttgaaag ctggcagatt 180

caatgagctg agaaggaaaa taggagttca aagtttgag gattaagaat tttgttcaa 240

taaatgttgc tgtaatgttc ttgttgtgga ttcactgttt ttgaatcaaa ggggggtgtt 300

agggataatt caaaaaacag ctactaatTT gttaatagtt gatggcggtt agttagttga 360
 cttagcctat atatagacat atgggta 387

<210> 11858
 <211> 470
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11858

agctntacag caaatgccac tctactccaa attcttgatg gatatgttaa caaggaaaca 60
 taagtatatt caccaggaaa acatcgtagt ggaaggaaat tgtagtgttg tgattcaaaa 120
 gatccttcca cccaaacata aagaccctgg gagtgtaact attccttggt caattggaga 180
 agtcaccgtg ggaaaggctc ttattgacct gngagccagc attaatTTaa tgccactctc 240
 catgtgcaaa aggttgggag agttggagat catgcccact aggatgactt tacaacttgc 300
 tgaccgctcc attaccagac catatggatt aattgaagat gttttggtca gaatgaaaca 360
 ntttatcttc ccggtagact ttgtggtaat ggatatctgt gaagatacta acattcctgt 420
 aatattggga aggccattca tgTTaactgc aagctgcata gttgatatgg 470

<210> 11859
 <211> 422
 <212> DNA
 <213> Glycine max

<400> 11859

atgcaagctg gaaggcaaac tggatgcatt ggttgactgg gtaaccagc tggccttgaa 60
 tcagaaatct gtacctgtcg caagggtttg tggtttgtgc tgctatgctg accaccatac 120
 agacctttgc ccttccatgc agcaacctgg agcaattgag cagcctgaag cttatgctgc 180
 aaatatttac aatagacctc ctcaacctca gcagcaaaat caaccacggt agagcaatta 240
 tgacctctcc agcaacagat acaaccctgg atggaggaat caccctaacc tcagatggtc 300
 cagccctcag caacaacagc agcagcctgc tccttctctc caaaatgcta ctggcccaag 360
 cagaccatac attcctccac caatccaaca acagcaacaa cctcagaaac aaccaacagt 420
 tg 422

<210> 11860
 <211> 465
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11860

```
agcttgacaa taaaccgact taggattnta agtattatTT tgctattgga taaaattatt 60
ttttaatcac aaatTTtact ttacaacatg tagattatga aaattaaaaat tacaaataat 120
agaagtgaag aataagTTTT agttcatata ttacagaagg caaatTTaaa atatatcatt 180
cattTTtata attataaact ttataattat aaaagatgta aaaaattatt catagttaat 240
aattaaagta aatccatgtc aaatgacaca tataaagcgt aataattnta tttatatTTa 300
aaattcaaca aaaaaatcat tcatagaaga atattTTaat ataaatgaat ataatatTTa 360
aaattggttc aatcaaattg gaaaacttga ctgctgagct atagtgaagaa tttttttttt 420
caattatatn ttttctatct ataaaaTTta catctaagac cttat 465
```

<210> 11861
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 11861

```
tatggTTTTa atttcgagca tctcgatata ttattggact caattggaca tccaggttaa 60
aatttattgt cgTTtgcatT tgctcagagc gttcgTTTTc cattacgagc gtctcgatat 120
attacgagac ttaatcggac atccgagcta aaagtaattg tcgTTtgcat ttgctcagag 180
ctttcgTTTT ccattacgag cgtctcgata tattactgga ctgaattgga tatccgagct 240
aaaaggTatt cttggTTgca tttgctacga gcttctgtgt tcaattTTga gcgtctcgat 300
atattacggg acttaatcag acattcttgt aaaatgatat tgtcgTTaga aatcgctcac 360
agctTTTTgta ttcaatttct agcgtctcga 390
```

<210> 11862
 <211> 375
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11862

agctngaate agacctcagt gtaaaaagtt atgaccattt gaattttctcg agggcttccg 60
 tttttcaatt tcgagcgtct cgatatatta ttgcctgaa tctgacatcc gtgtgataag 120
 ttttgaccat ttttaattgt cgagagcttc cgttggtcaa tttcatacct ctcgatatat 180
 tatgcgctcg aatcggacct ccgtgtgaaa agttatgaca atttgaattt ctgcgcatct 240
 tccattgttc aatttcgagc gtctcgatac atgatgcgcc taaatcggac atccgagaga 300
 agagttacta ccatttgaat tcttcgagag cttctcgtgt tcaatgtcga gcgtctctat 360
 atattatgct cctga 375

<210> 11863
 <211> 343
 <212> DNA
 <213> Glycine max

<400> 11863
 agcttcttag tttcagatga tgcagatgag tttgtagtca cctcatgcac tctctaatg 60
 actatagcat catttttggc gctaaactgc tgggagtagg aagccatctt ctcaattaa 120
 tttttggctt cagcaggagt catgtctcca agggctccac cagtggcagc atctatcata 180
 cttctctcca tattactgag tccttcataa aaatattgga gaagaagctg ctccgaaatc 240
 tgatggtgag ggcagctggc acatagtttt ttaaactctt cccagtattc atacaggctc 300
 tctccattga gttgtcta atacctagata tccttcttga tgg 343

<210> 11864
 <211> 364
 <212> DNA
 <213> Glycine max

<400> 11864
 caagcacaga gacatatatt ccaactgatt tatagcagca tatgcttttt tgagtgaana 60
 acaatgcgtc taccggggaa ggagagtctg ctgatgaaat ctcccataac cataaatgag 120
 attttggatg ttagcatttt gtttctaaat gaccatttag aggaaacact gggttcgaca 180
 aaaatagaag aaatccactc aaagtgtatc aatctgcac aggtgaagtgt ttcactccta 240
 ttccgaacca tagatatgtc atgacttgac ttgcaaatt atttctatc aaatcaaaaa 300
 ttacatgcgt gatcatggat caaataggac ttcccttggg aatggttttt atattatggg 360

tttt

364

<210> 11865
<211> 420
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 11865

tgtgaacaag attcttgacc ggtccgggtt gggaccgtgg acgtatgtcc cggagggtct 60
cctggagatc cctcccagac taacgttga ggaggcaagg aaggagacgg acacgggtgt 120
cttcggggcc gtgcacgagc tcttgagaa aaccgggtgt gaagccaaag acattgggat 180
tcttgtggtg aattgttgtt tgttcaatcc cacaccatct ctctctgact ccattgtcaa 240
ccgttacaag cttagagggg acattttggc ctataatctt agtggcatgg ggtgcagtgc 300
tggggttctt gctgttgact ntgccaaaca gtcctacag gttctctctc accatcatgc 360
taataaatta gtattccatg catttntgta ttgttttact gccatcacat atatattctc 420

<210> 11866
<211> 460
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 11866

agcttcattg acttttcata tagtatnttt ttatataaat aagtatcgtt tagaaaaactg 60
tgtaatttcc ccccaaaagc aacatttttc aatgctgtgt catatttttt aatattttct 120
tacgtagtta tatttaaaac agtattttat agaaacaata aggagatctt tttaaaaaaa 180
aagtatata tattggaata aatgcattgt cattttttta atatgtattc acacatatga 240
aaacaactaa tggcgatata ataaaaaaaa aaagttgtaa gtaaagatta aaaaaacaag 300
ataattttat agcatgactc cggataaatg aaatgagctt cgctaggggt atgaattgga 360
ttatcaatta ttaaagaga atcgattta caagtaaaaa ataaaataga attgtatatg 420
ggaaacactt acatatatct cttttttata catatatatt 460

<210> 11867
<211> 405

<212> DNA
<213> Glycine max

<400> 11867

tgtaatttct gatcctcaga taacatatgt ggtaaagggtt gggactggaa cgagtcacca 60
atggcctttct tgaggaaaga gacatgaaag accggatgag ttttactgtg agatggaaga 120
tctaacttat aagcaacaac acccacctta tttaacacct ggaaggacc ataaaatcga 180
ggggagagtt ttccattaat ccttttagcc aaggatcttc tcttgtaagg ttgcatcttc 240
aagaacaccc aatcacccgac tgtgtattct atgtcctgac gacgtttgtt ggcatttgct 300
cgcatgatat cttgagactt caacaaattt ctcttagagt agccataatt atcctaacca 360
ttggtagtgt attgacttct tcatgcggga ggaatgggga tccct 405

<210> 11868
<211> 385
<212> DNA
<213> Glycine max

<400> 11868

agcttacaaa tctatcttaa gtccaagccc atacacgaaa taaaataaaa tctagacaag 60
ataagataag attggatgaa ataaaatcgg gataaaataa aatctagatg aaataaaatc 120
tagataagat aagatttgat aaaataaaat tgtctgctct cttcaagtcc aagcccaatt 180
ctggattcaa gctcaattgc ttataattct cctgaaatta aattaaaaac acaaaatttg 240
ttaagtaggc ccaaatgata aaactgcata attaatttga caattaaggc taatcagtaa 300
ttaaaatggt gacaaaaaag gttaagaaat aggagaaaat aatgacacat caagtgcaaa 360
ctatggatct ttcaccagtg gcaat 385

<210> 11869
<211> 417
<212> DNA
<213> Glycine max

<400> 11869

tgtgactgtt agagttatca tctctctcgc tatctctcag aagtggcctc ttcaacaact 60
atgttaacaa tgccttcctt aatagcactc atgaagagga agtatacatg tcacagcacc 120
tggttttgtg ttttctaaca agcagcaagt ttgcaagtt acacaaggcc atctatggtc 180

taaaacaggc cactagagcc tgggtttgaca aactcaaaac tacccttctc agttttaagt 240
gtttccagca aatctgatcc ttcactattg gtgttttctg ataatgctgt tgttgtatat 300
attcttgtct atgtagatga tataatcatc actggaaaca acaccaagtt gattaattct 360
tctgtacgtc tgctaaattt tgtatttttc tcttaaagaa ctgtgtgact tggacta 417

<210> 11870
<211> 392
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 11870

tgaactttta aagcgtaaag ttacgttact gtgttattta ttaagattaa tcttttagaa 60
agcgtaaaca tgttgttgtg ctggaattat ttattaaaat taattgtatg tttatttttg 120
tatttaagca tacaatatta agctaaacta aataatttat gcatattaaa tttaatgggt 180
aagagtttat atgtttcaaa tattagataa tcatatgcat ataattttta tttatttttg 240
aagttttgtg tgtatgattt atgattttat acatgcgana ttatcttgaa tattttatac 300
aatattattt gggttattta cattatgtaa aatattatat gaatatttaa ctctatttaa 360
gaatgaatgg taagtgatta atataatttt at 392

<210> 11871
<211> 291
<212> DNA
<213> Glycine max
<400> 11871

agcttagtgc caccggtgat gcttctttta acgatccaac caaataccgc agtcttgacg 60
gggctcttca atatcttact ttcactcaga ctgatataac ttatgccgtg cagcaaaatt 120
gtcttcatat gcatgctccg acaaatgagc atatgagtgc tctcaagcgt atcatatgct 180
accttcaggg tactttatcc catggtttgc atttgtacaa atccaccatt gatagactaa 240
tctcttatac agatgctgat tgggtgtgggt gtcttgacac ccatcgttcc a 291

<210> 11872
<211> 390
<212> DNA

<213> Glycine max

<400> 11872

tgctcgcgct aagcgcatag acccttgatt ggttggaag atagttcagc tgagtgcaca 60
tcaactgtgct aagccccgca tctttacggg aattgaactt taaccagtgg gcttagcatg 120
gatgatgcac taagcgccac ttcttcttga gaaaaattta tctagcaac gctaagcgca 180
ctatcctgcg ctaagcccta gatccattct gtaacttgag tttttaagct gggcttagcg 240
ggccagattg aagggtgtaga ctttgatgaa acgtttgccg cggttgctag acttgagtc 300
atcagattgt tacttgggtg agcttgcac ctcaaattca agctgtacca aatggatgtg 360
aagagcgcggt ttctgaatgg atacctgaat 390

<210> 11873

<211> 404

<212> DNA

<213> Glycine max

<400> 11873

tggaggcatt acctttatgg atctaaatta gatgtgttta gtgaccataa gagccttaga 60
tatttgtttg atcaaaaaga gcttaacatg aggcagagga gatgggttaga gttccttaag 120
gattatgatt ttgagcttag ctatcatcca ggtaaagcca atgtagtagc tgacgcctta 180
agttagaaaa cccctcaaatt gtctgctttg atgggttaaag agttggacct cttagagcag 240
tttagagaca tgagtttggc atgtgagatc acctctagta gcattaagtt gggatatgtg 300
agagtcacca gcgaactttt gagcgagatc cgtgaggggc aaaagtttga ccgattcttg 360
tcagcccacg tagaatccat agtcgcaggg agagagagta gttt 404

<210> 11874

<211> 416

<212> DNA

<213> Glycine max

<400> 11874

tgtacaatgt aaccttatac attgtaaaaa tcatgttcta atgcaattct aattcctact 60
aaacttatag tatacataa catacatata attgaaattt taaattaact acttgaatta 120
aattctcatt gtaattaatt ttcaatgtca atttatattt tacaaattgc acaacacaaa 180

actttctata atgagttgta atttccaagg tattacatta gtcattacaa attatgttta 240
 ttttgccctt tgtaacattt ttttaactat taagaaaata tgggtattat ataaaaaaat 300
 atagatattt gtatcttttg aatattttat acgtcagaca caaaactgtc ctataattta 360
 tcgagtaaaa agaaaaataag ctttattcta ttgatttttt atctcatata tttttt 416

<210> 11875
 <211> 411
 <212> DNA
 <213> Glycine max

<400> 11875
 ttatcacata aaattacatg ttattaaata tttaattaat tacttaagtt aaatgttatt 60
 gtaattaatt tcaatattaa ttatatctcc acatatcaca caagtacaaa actttatata 120
 aaataagtta taaattttat ttatgatgtt accagcaaga ctatccgatg acctgtgatc 180
 cattgaattg tcaactagga caaaaaaat acacagacaa ttatgtgagc aacatatatg 240
 acatcttaga atcatcaata tgagatataa gttgacatat tcaagtgtaa atattatgag 300
 taatattata ctagaccaac tcaactgtgag aagacttcaa aatagttaag taaatgtcat 360
 gataagtgtc tcttatgata attatattat gtgataacta catcatatat g 411

<210> 11876
 <211> 394
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11876
 tctaatatct cccacacttt ntgggggtggg ccattcttgg atggccttga tttctttagg 60
 gtccacttgg accccatttc taccaactac aaaacctaaag aagactatat tatctacaca 120
 aaaggtacac ttctctatat ttgcatagag ggtgtttttc ctaaggactg aaagaacttg 180
 cctgagatgt ccgaagtgat catctaggct cctactctac actaaaatat catcaaaaata 240
 aacaactaca aatctaccta tgaaatccct taagacatga tgcataagcc tcataaagggt 300
 gcttggtgca ttagtgagcc caaaaggcat cactagccat tcatacaaac caaacttggt 360
 cttgaaagcg gggttccact catcaccctt ttct 394

<210> 11877
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11877

agcttcaatt gtgacgggtg tatatccacc actcaattat ttcatagaagg tttagaaaaa 60
 attacatagt tgaatcaaca tcattaccaa tgtgattaga atgataaaaa aacctaacaa 120
 argaaatcca acacatcaca tgataattag aaaaatgcaa taacaataaa gaataggaat 180
 attataaatt agatatacat aaattaatat tatgtacaga gcaaaaatgt ccaaacaatt 240
 taacaacatt tttgttgatc cataaaatat cataatttgt gcctaaatcg gaaccaatct 300
 agatccaagt gtgattttaa aaccataatt cttaaaaaga ataaattatt ctacattgtg 360
 aaacatatct aatgatctag cacacaaata cattgcaacc ataataaaat aatgttagct 420
 atcaacaata aaaactcaaa acanaaaaat atgtc 455

<210> 11878
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 11878

tattggagca ctaccaatat gctatattgg ttatgagaat ggtggccagc taactgaagt 60
 tgtttcttat cgcgcgcctt ctttatttct ctttgacgag gttgaaaagg ctcatgaaga 120
 tgttttcaaa gtgtttcttt agatttttga tcatggtaga ctgacaaaat gcctatgaaa 180
 agttgtggac ttcaagaaaa ctattattat aataacttta aatattggat ttggttaacta 240
 gtccaatgat atacagagta agataccaca agtggaaatg acaagcagac ccaagaggaa 300
 aaatatcaac accaaagtat ttagcatatt ataattgatt tatgtcttgt attaagagta 360
 tgaataatta aggtctatgg agacata 387

<210> 11879
 <211> 355
 <212> DNA
 <213> Glycine max

<400> 11879

gcttgaggcc ttggatcttc ttcataatg gagtcttttg cttcttgaag atcaatggca 60
gcaaaatgga gaaggaagaa agatgattgg agacgccact tcaaggagaa gatgagtcaa 120
gaacaagctt accaccatag gaagcaatgg ataagagctt gaaggtagga gaagataagt 180
ggaggggagaa gaagaaaaag agcacagaat tttatgcctc aaatgaggtc taaactttga 240
agtgtaattc tcaaatgata aaagttgaaa aaatgcatac acaaggcctc tatttatagc 300
ctaagtgtaa tacaaaatta gaggaaaatt tgaatttcta ttcaaatttc acttg 355

<210> 11880
<211> 415
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 11880

tgtaattatg gttgatccag tatttggata taagagtatc agtatatgaa ttgggttttag 60
cccagggtca taacaaattt aaaaaattta tactcgattt ataaaaattaa caagagattt 120
taatttcaag ttctagttat aaaattacat taaatattta aagaaaaaat taatcaccta 180
taatgattat ataaaactcg agtatggtct acaaaaacaa aatgaaacat tgtctttaa 240
gtctaagttt atattttttt gttaactntg tatttttaac atttgagaca tagaactgta 300
cgtactagca agcagcgcca cgttgagtaa gtctaggaat acacgtgaga tccaataaat 360
agaaattaaa aaatatttgg aaaacattaa atttaaaggt tatttatata taata 415

<210> 11881
<211> 260
<212> DNA
<213> Glycine max
<400> 11881

agcttgtctc cctgttcttg attattgtag agaaacatag ggagccaaat gtcttcagat 60
ttgttagctt tgggtttgtag tcgtgccatg cttcaaagg agtctttttc tgcaaagctt 120
ttgttggtaa cctattcagc aaaaaactgt tgtgtgtgca gcctctgccc aaaattcctt 180
tggtagccct ttgtcatgaa gtaagcacct tgtcatctcc ataattgttc ggtttttcct 240
ctcgacaaca ccattctgtt 260

<210> 11882
 <211> 254
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11882

agcttaccac aatctgtacc cttctatctg nggctgctat taaggactgg cacttagaac 60
 aacttgacgt caacaatgct ttccttcacg gtgatctgca tgaggaagta tatatggatc 120
 tgcctcctgg gttcttgccg cctggttctt cttctaataa agtctgcaaa ttacataagt 180
 ccttatatgg actgaaacaa gctagcagac agtgggtctc caagttatcc actgctctta 240
 tctcccttgg atac 254

<210> 11883
 <211> 247
 <212> DNA
 <213> Glycine max

<400> 11883

agcttataat atatttatac gctcgaaatt aaacatcgaa aactctcggg aaattcaaat 60
 agtcataatt attcacacgg atgtccgatt cgggcgcata atatgtcgag aggctcgaaa 120
 ttgaacaacg gaagctcttg agaaattcaa ctggtataac ttttcacacg gatgtccgat 180
 tgaggcaaat cacatatcga gacgctcaaa attgaacaac ggaagctcct gagaaattca 240
 aatgggc 247

<210> 11884
 <211> 261
 <212> DNA
 <213> Glycine max

<400> 11884

agcttgacca tgatttttag aataatattc tctgatgctg accaggcact ttttgatgaa 60
 tgcttgaaga gattccaaga agaagaaatc aatgataggg agaagcaaga gaagcgagaa 120
 tccatatgga aacaactgga agatgttgct gcagctaata ctgtaagcaa tgaggccatc 180
 cttgtctcaa gatttgtgtc ctctgttgca attgctacca gtgctaataa attggcaact 240
 gcaggtgggt gagagccatc a 261

<210> 11885
 <211> 192
 <212> DNA
 <213> Glycine max

<400> 11885

agcaccaacc tgacagcggg ctggatctcc ctggatgtaa tggtcggcct cttgttatac 60
 ctgcgcgagac gcgctgcttc ctgcgcaagc ttctcgaata tategttgat gaagctgttc 120
 atgatcccca tggccttgct cgaaatgccg atgtcaggat gtacctgctt cagcaccttg 180
 aatatgtaga tc 192

<210> 11886
 <211> 224
 <212> DNA
 <213> Glycine max

<400> 11886

acctgacatc acctttgcag taggtgtttg tgcaagatat caagccaacc ctaagataag 60
 tcacttgaat caagaaaaga gaattctgaa atatgtaaat ggcaccagag actatgggat 120
 tatgtactgt cattgatcat attcaatgct ggttgggtat tgtgatctg attgggctgg 180
 aagtgcagat gacagaaaaa gcacttctgg tggatgtttc tatt 224

<210> 11887
 <211> 228
 <212> DNA
 <213> Glycine max

<400> 11887

acactttttg gggtagggca ttcttggatg gccttgaatt tctcaaggtc cacttggacc 60
 ccatttctac caactacaaa acctaagaag actatattat ctacacaaat ggtatacttc 120
 tctatatttg catagagggt gtttttcta aggactgaaa gaacttgctt gagatgtcct 180
 aagtgatcat ctaggtcctt actgtacact aaaatatcat caaaataa 228

<210> 11888
 <211> 190
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 11888

tagatacaat ccagtgtgga ggaatcatcc anatctgaga tggacaagtc ctccataaca 60
acaatagctt gtcctctctt ttcagaatgt tgctgggtcca accaagccat atgttcctcc 120
tccaatacag cagcagcaac aacagcagtc acaacaaaga taacaagcaa ctgaggcnnt 180
ctctcacctt 190

<210> 11889
<211> 346
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 11889

caccctgagt cttaagggag ttccaaaacc gagtgacata ccttcaagta caagtatttc 60
cccttatgag aaacttcaag tacttactcg canagtttat actatntcca tgcaacatga 120
agtatgaac atgggtacca tcaatgcaca nactgtggat aattaaagat tctaagtcac 180
cccccttcat agatgcttan aactctctaa ccactctnnt cctcaccagg gatatccatc 240
atggttaactg aaccnccat gtacatacac aacatacatc atcacaatga catnttcaac 300
atcaacaaca tntcatctca atgtcattat caacatcaac atcatc 346

<210> 11890
<211> 252
<212> DNA
<213> Glycine max

<400> 11890
agctttttagc taattcatatc tacaataatg gtttgcctcg atgtctgatt gagaccgta 60
atacatcgag acgctcgaaa ttgaatgttg aagctctcag caaattcaaa cgacaataac 120
tttttactcg gatgtctgat tgagtccgt aatacatcga gacgctcgaa attgaatgtt 180
gaagctctca tcaaatcaaa accacaataa cttttttact cagatgtctg attgagtcac 240
gtaatatatg ga 252

<210> 11891
<211> 195
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11891

cctctctttag ctntgcaatc atagaaggga ggagcatgga agcacggctc catcgacatg 60

gcacgttgac aaggaggatc angagctgtt ccattctcgg gcttgtagac tatccacggg 120

ttcaaccctt caagcccctg agctacgtag ccganagtag accatgagct cgtgaccaac 180

atgtcgggtca agctc 195

<210> 11892

<211> 250

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11892

agcttcttgt gggatatatt gactagctnt ccaatctgac attcaccaca gattctgcct 60

tcttctattt tcagattggg aatgcctcta acagcacctt tgtcaatgat tttcttcatg 120

cctcttaagt gcagatgtcc aaatctttga tgccatatat tgacttcac tttcttggag 180

actagacatg tggaggagta actggtttct tgaggtgtcc ataggtaaca gttgtccttt 240

gatctgctgc 250

<210> 11893

<211> 296

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11893

gatgcatggg agaatcctga aatcactcat gaaggaacct ccacagtga gatgtccaga 60

atgcaactct tggctacaaa attcgaanat ctgaagatga aggaggaaga gtgtattcat 120

gacttcaca tgaacattct tgannatgcc aatgcttgca ctgccttgn agagaggata 180

acagatgaaa agctgggtgag aaagatcctc agatccttgc ctaagagatn tgacatgaga 240

gtcactgcaa tagaggaggg ccaagacatt ngcaacatga gagtagatga actcat 296

<210> 11894

<211> 294

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 11894

 tctacactt ggagtataa catgcagtc tcttgaactc ttaatgcaca ctctgtcacc 60
 atggcgagac tcacgaaggc caacacgttt agccttttca atgtactctg gacaaaattc 120
 aatggcttct tctgcaatgt acctttcaac aatagatgtt tccggatgat gtaaatctct 180
 gytataccct gttaagatct tcatgtatcg ctcaaccggg tacatccact gcanataaac 240
 aggaccacaa catangtatt ctctgaccac atgaacaatt aagtgaatca tgat 294

<210> 11895
 <211> 250
 <212> DNA
 <213> Glycine max

 <400> 11895

 agccattctc cttaactgc acaaggctct taatatTTaa agagtatcct tgtggaacct 60
 tcaccacagc aagacactga aaaaaaact tatcttctcc tttttggaaa aagtatgaca 120
 agctgggggc aagtaaattt tcttccatt agaccttgga tgcagctgtg atcgtgtccc 180
 catctcagct agatcttgac gggatttcaa gccatccttc gtcttgccct gaatgttaag 240
 gagtgtccca 250

<210> 11896
 <211> 212
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 11896

 atgctcctct gcagaccacc acacagacct tngcccttct gtgcaacaat ctgaagcaat 60
 tgaacagctn gaagcttatg ctgcanacat ctacaataga cctcctcaac ctacgcagca 120
 taatcagcca caacagaaca attatgacct ctccaacaac aggtacaatc tctgggtggag 180
 gaatcatnch aaacagcagc aacaacaatc tt 212

<210> 11897
 <211> 327

<212> DNA
 <213> Glycine max

<400> 11897

agcttctaaa cttttatacat tattgaagct ctgataccac ttgttggaca agtggcctca 60
 gatattcttaa aaaggggggg ttgaattaag atatacacaac ttatttcccc aattaaaaat 120
 tctagttatc tttctattcc agttataaat tcccttaata atgaatttct taaatattga 180
 ttcaaatata acaatttgaa tataaatata aaacaataat aaataaagga gttaagggga 240
 agagaaaatg caaactcaga tttatactgg ttcggccaca cccttggtgcc tacgtccagt 300
 cccaagcaa ccccttgag agttcca 327

<210> 11898
 <211> 351
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11898

tctaactgat tacacacata ctgtaatcga ttaccagagg agtttttcag aaaacattct 60
 caacagtcac attntnttat ctgtttctta aatgggtcgc aaaggcttat atatatgtga 120
 cttgagacac gaatttaaca agagttttca agagcaaaaa ggtcttatcc tcttaaaaag 180
 cagaatagtt ttactctctt acaaattcct tggccaatac acttggtgatt caataaagaa 240
 ttatttgagt gctcaaattg ttcaatctat ctctttcaag agagatttct tctctcttg 300
 anaagggtatt aagagaccga ggggtctcttg ttgtgaaaga attctaaaca c 351

<210> 11899
 <211> 328
 <212> DNA
 <213> Glycine max

<400> 11899

tagcttctac agaagggttg ttctaattt ctctacactt gcctcacctc tcaatgagct 60
 ggagaagaag aatatggcat tcaactgggg tgaaagacaa gagcaagtct tttctttgct 120
 caaagaaaaag ctcacccttg cccctgatct aactcttctt aacttttcta aaacttttga 180
 gctataatgt gatgcctcta aagtgggtgt gtgagttgaa ttgttgcaag gtggacacct 240

tattttcttat tttagtgtaaa aaattcatgg tgccaccctc aactacccca cttatgataa 300
 agagctttat gcctataata agagccct 328

<210> 11900
 <211> 322
 <212> DNA
 <213> Glycine max

<400> 11900
 agcttttact cgcattgttcg attcaagcgc atagcgtatc gagacgctat aaatctaaca 60
 aaggaaagctc tcgagaaaatt caaatgggtca tagcttttca ctgcgatgtc cgattcaggc 120
 gcataacata tcgagacgct cttaaattgaa caacatattt tttcgagaaa ttcaaatggg 180
 cataactttt cactcggatg tccgattcac gcgcatagcg tattgagacg ctcgaaattg 240
 aacaacggat tttgttgaga aatccaaatg gtcgtaactt ttcactcgca tgcccgatcc 300
 acgcgcataa catatgtaga cg 312

<210> 11901
 <211> 245
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11901
 tgccttgccc ctngatatat ntgagggact catggtcact atgaatgaca aattcctcgg 60
 gataaaggta gtgttgccat gttttcaaag cccgtactaa tgcatacaac tccttatcat 120
 aagtgaata gttaagggtg ggaccactta acttttctact aaaataagca attggatggc 180
 cttcttgcac caacacagcc ccaatcccaa catntgaagc atcacactca tattcaaaag 240
 atttt 245

<210> 11902
 <211> 326
 <212> DNA
 <213> Glycine max

<400> 11902
 agcttggaact tgctgtgttt ttggaacctc tcttctctca ggtggacca aacccaatca 60
 cctgggtcaa gcacgacttt ctttctgctt ttgttggtt gccttgcata gctcgcattt 120

ttcttttcaa tttgaacctt cacttgetca tgcacttct tcacatactc agcttttagcc 180
 tgtgcatcct tatgtctaaa cataccaatg ttaggcatag gcaacaaatc aagaggagtc 240
 aaaggattaa atccatacac tatctcaaat ggtgaacaat tagttgtgct atggacagcc 300
 cgattataag caaactcaac atgagg 326

<210> 11903
 <211> 330
 <212> DNA
 <213> Glycine max

<400> 11903
 agcttaaaca ttcaacttcg ttcgtttcga tatattatgg gactcagtcg gacatccgag 60
 taaaaagtta ttgtggttag aattcgact gaggttcaac attcaatttc gagcgctctg 120
 atatatgacg ggactcaatc atacatccga gtaaaaagtt attgtcattc gaattggctc 180
 agagctttca acattcaatt tcaaacgtct cgatatatga cgggactcaa tcagacatcc 240
 gagtaaaaag ttattgtcgc ttgaatttgc tcagagggtc tacattcaat ttcgagctta 300
 tcaatatatt accggacttc atcatacatc 330

<210> 11904
 <211> 335
 <212> DNA
 <213> Glycine max

<400> 11904
 agctttgttct tctacaaaaa ttttatgaaa caatgacaaa acaaatgtgg atgtagaaga 60
 gtgagtgtct tggtttagtag caaaaaaata tgtatcttct tgaaagatga cgtttctaga 120
 aactogaatc ctatgtaaat gaggatcata gcatataaaa cctttttgat gggttgagta 180
 accaagaaaa acacatttaa cagattgagc tgtgggtttg gtgtgttcta gtggctaaag 240
 atgaacatag tagacacaac caaagggtcg aagagtggaa taattagggtg gcttaccaaa 300
 taaccttaag aaaggggaat cattatttaa ggctt 335

<210> 11905
 <211> 329
 <212> DNA
 <213> Glycine max

<400> 11905

agcttttact cggatgtcct tttgagtcce gtcatatatc gagatgctcc aaattgaaaa 60

tagtagctcc tagcaaattc aaaccataat aactttttac tcggatgtcc gattgtgtcc 120

cgtagtatat cgtgacgctc gaaattgaaa acataaggtc tgagcaaatt caaacgacaa 180

taacttttta ctcagatgtc cgattgagtc ccgtagatat atcgagatgc tccaaattga 240

aaatagtagg ttcttccaaa ttcaaaccat aataacgttt tactcggatg tctgattgag 300

tcccgacta tategagacg ctcgaaatt 329

<210> 11906

<211> 326

<212> DNA

<213> Glycine max

<400> 11906

agcttgtggg tggaggactc ttgaacgaaa acacaattca tggggctccg aaaaagggtt 60

gaggatggag aattgcacta agcaatcact acgcacggct ccaagctcca gggtaggagga 120

cgcatgaacg aaaaagcaat tcatggggct cccaaaaagg gttgaggatg gagaattgca 180

ctaagcaatc actacaaacg gctccaaact cgtgggtgaa ggacgcatga acgaaaacgc 240

cattcatggg gtcctgaaaa agggttgagg atggagaatt gcactaagca atcactacgc 300

atggctccaa gtcctgggt ggagga 326

<210> 11907

<211> 326

<212> DNA

<213> Glycine max

<400> 11907

agcttgtgca tccaattctc tgttgaggat gtcccatatg ttcttaaaac tggactgatt 60

catttgtctc caaagtttca tggccttgca ggtgaagacc cgaacaaaca tttgaaagaa 120

tttcacattg tctgtctcac catgaaaccc ccagatgtcc aagaggatca catatttctg 180

aaggcttttc ctcatcatt aaaggagtg gcaaaggact ggctgtatta ccttgcctca 240

aagtccatca cgagctggga tgaccttaag agagtattct tagaaaaaaa ttcccttgct 300

tccaggacca cgagcatcat gaagga 326

<210> 11908
 <211> 329
 <212> DNA
 <213> Glycine max

<400> 11908

agcttgagga tgatgtagt tttattcgtc agtgcttga ccttcgccca ccatacctcat 60
 agatttagat tattattata ttttggtttt taagccttgt atttggtat gtttttatga 120
 catttgaaca cttagtattt cttttaatat ttgcttagta tgattgaaca tgatgataat 180
 atttacttgc tcttggttgc ttatggttat ggttggttaa ctttaattatt ttgatgatat 240
 atatgtctag tggtagtgac ttacatttgg tattgtgctt tatgtatgta ttagaattat 300
 ttatgtatga tttattttac acactttgg 329

<210> 11909
 <211> 330
 <212> DNA
 <213> Glycine max

<400> 11909

agcttgtagg ccttggtatc tctttatcaa tggattcctt tgcttctttg aagatgaatg 60
 acagtggaat ggataaggaa gagagagagg agatgccact tcaaggagaa gattagtcta 120
 gaagaagctc accaccatag gaggccatgg ataagagctt ggaggaagaa ggagatgaat 180
 gaagggagag gaagagaaca gcacaaaatt ttgtactcta aaagcgctat gaaatctgat 240
 gtttaattat caaatgatca aagttgaaaa aatgcgcaca caagacttct atttatagcc 300
 taagtgtcac acaaaattgg aaggaaattt 330

<210> 11910
 <211> 335
 <212> DNA
 <213> Glycine max

<400> 11910

agcttatgct gcaaacatct tttacagacc tctcaacct cagcagcaaa atcagccaca 60
 acagaacaat tatgacctct cttagcaatag gtacaatctc ggggtggagga atcatcccaa 120
 ccttattttc aaaatgatgc tggcccaagc agaccatacg ttcctccacc aatccagcag 180

caacaacaac aacaacccca gaaataccaa acagttgagg cccctccgca accttccctt 240
 aaagaacttg tgaggcaaat gactatgcaa aacatgcagt ttcaacaaga gaccagagcc 300
 tccattcaga gcttaactaa tcagatggga caatt 335

<210> 11911
 <211> 332
 <212> DNA
 <213> Glycine max

<400> 11911
 agctttggag ttaccaagtg tcatttcgtc ttcttctttt gaccagtctt cttctggctt 60
 caattcatca gtgggctttc cttctgtgtc cagcatcttg ggatgttccc agcctttgat 120
 gacagctttc caagttctgc tatccagtga ttgaggaag gccaccatcc ttgctttcca 180
 gtattcatag ttggttccat ccagaattgg tggctgttcc actggctctc cttctttctc 240
 catgttcttc agaatttate tccctagatc tcaactcagtg atttcgagtg cccgctctga 300
 taccaattga aattctgata ctggggacag at 332

<210> 11912
 <211> 354
 <212> DNA
 <213> Glycine max

<400> 11912
 atacagtaga cccgacctgc tggcatgcta gcttgatagg aaaatttctt tgggaaattc 60
 actagtatct tggaattaca agaacaagc ttgtgtagca ctatccacta caacagcaaa 120
 atacattgaa attggaagtt gatgtgctaa atgtctctat atgaacaac aacttgagaa 180
 cattgcggta acccttgatc ccattcctct aaaatgtgac aacataagtg ctattaatct 240
 gtctaaaaat ccggtcatgc attcttgaac taaacatata tagattagac atcattttct 300
 aataaatcat gtataaaaag gagattgatg cattgagtg gctgatagtg aaca 354

<210> 11913
 <211> 332
 <212> DNA
 <213> Glycine max

<400> 11913

agcttatgca gcaaaagtgc ttacatgagt gtgtgtttgt gccatacttt ttatcagaca 60
 acccgtagta gtttgcaccg tactttcatg tcgtactttc tgttcgaccc caataacgtg 120
 tcaaagttgt tgagcaagct tagcgtggcg cagtgtctaca acaccatcaa gtcgttggcg 180
 tatgagacgg aggtgcgttt gcgcgacccc atgtatggct gcgtgggctt catcttctc 240
 ttgcaacaat gactatgcga aatcacaaca aaggtacaca acgcgaagga gttatcaacc 300
 tacctcaacc ctaggccatg caggttcttt ta 332

<210> 11914
 <211> 227
 <212> DNA
 <213> Glycine max

<400> 11914
 tcgtctcgat atattacagg tctcaatctt acatctgttt gaaaaaagtt attgtccgtt 60
 ggaattgctg agagcttcaa cattcaattt tgagcgtctc gatgtattac aggacttaat 120
 cagacattcg agttaaaagt tattgttgtt tgaatttgct gagagcttca acattcaatt 180
 ccaagcgtct cgatatttta cgggactcaa tcagacatcc gagataa 217

<210> 11915
 <211> 294
 <212> DNA
 <213> Glycine max

<400> 11915
 tgattgagtc ccgaaatcta ttgagacgct cgatattgaa tattgaagct gagagctaat 60
 tcaaacgaca ataacgtttt actcggatgt ctgattgagt cccgtaatac atcgagacgc 120
 tcgaaattga atgttgaagc tctcagcaaa tttegaacgac aataactttt tacctcagat 180
 gtctgattga gaccggtcat atatcgagat gatcgatatt gaatgctcga actctgagca 240
 aattcaaacy acaataatga tttgctcgga tgtttgatag agtcccgtaa taca 294

<210> 11916
 <211> 324
 <212> DNA
 <213> Glycine max

<400> 11916

agctttatca aatgtggcat ttgaggtaat taatgatata aacttttatt atttgagcag 60
 agatttcgat ggacaaatta cacacagaaa atatgatttt gctaattatg ttaaatcttt 120
 aatttgaagg gactgctaac cgaagggttc ctttggatcc cctctttggg tggtcctact 180
 accattgctg ctagacaaag tggagctgga atttcttggc tttttccatt tgtggtaaga 240
 aagatatctt ttgcttcata gttgaaataa taagttgtag ttgggctttt tccccctaatt 300
 cctgtgagtc attatgatct ttgc 324

<210> 11917
 <211> 325
 <212> DNA
 <213> Glycine max

<400> 11917

agcttgaagg caaactggtt ttattggta acttggtaac ccagctggcc ttgaatcaca 60
 aatctgtacc tgtcgcaagg gtttgtggtt tgtgctctc tgcctgaccac catacagacc 120
 tttgcccttc catgcatcaa cctggagcaa ttaagcagcc tgaagcttat gctgcaaata 180
 tttacaatag acctcctcaa cctcagcagc aaaatcaacc acagcagaac aattatgacc 240
 tttccagcaa catatacaac cctggatgga ggaatcacc taacctcaga tggtcagacc 300
 ctcagcaaca acaacagcat cctgc 325

<210> 11918
 <211> 322
 <212> DNA
 <213> Glycine max

<400> 11918

tagcttgtgc ctatacagt atgttatgtg aatgtagcat ataaatcgcg aataccetta 60
 tgtgctttga tgatggctat ttcccgtcc tagcttcaat tggagttatg tcttttacag 120
 acttagtagt acatctgttg agtatgtaaa cagaagtgtg tactgcttca acccagaatg 180
 tgttaggtag tcccttatcc ttgagcatcg atctaaccat tctataact gtgcgattct 240
 ttttattgga cactccattt tgttgaggag aataagcgac tgtaagtagg cgctcaaac 300
 ctttattctc acaaaatctt tc 322

<210> 11919
 <211> 331
 <212> DNA
 <213> Glycine max

<400> 11919

agcttacatg aaacttccta ttgttatgtc ctcacogtta cctaataattg tttgcaagct 60
 aaaacgttct ttgtatggat taaaacatgc accaagagtg tgggttgaaa agtttagcac 120
 aacactactt ggcttttctt tcatccaaag tagctatgat ccattctttat tcttataaag 180
 gacctcaaaa ggaattatga ccttccttgt ttatgtagat gacattatcg tcactagctc 240
 agatcaagag gctatcacta caatcaagca attgttgcac acaactttca acatgaaaga 300
 tcttgacaaa ctcacttatt tcttgggatt a 331

<210> 11920
 <211> 324
 <212> DNA
 <213> Glycine max

<400> 11920

agcttggcga cactttttta agattgaatc ctataatgaa ggaggaagta agaaaagaag 60
 tgctcaagtt attagaggca ggccttatct atccaatttc agacagctca tggggttagtc 120
 ctgttcaagt tgttccaaaa aaaggaggga tgacagtaat aagaaattat tgaatatgaac 180
 taattctcac cagaacagtc ataggatgga gaatgtgcac tgattataga aagcttaatg 240
 aagccacaag aaaagatcac taccacttc ccttaatgga tcaaatgctt gagagacttg 300
 cagggaatc tttctactgt tttt 324

<210> 11921
 <211> 321
 <212> DNA
 <213> Glycine max

<400> 11921

agctttgcta cgataaccac ttggactgga ctcaccact ggctgtcaga aatggggtaa 60
 atgattccag cttgtaagag cttggtcacc tcttttttca ccacatccag aatgacgggg 120
 tggagttgcc actgaggttg cctcactggc ttatctccat cctttaaaag taccctatgc 180
 atgcaggtag atggctaat accaggaatg tgtgctaaag tccatccaat ggctttcttg 240

agaactagcc acaactttct ctcttgctca gcatcaaggg aggcatagat gatcactgga 300
aatttttctt tgctctccaa g 321

<210> 11922
<211> 326
<212> DNA
<213> Glycine max

<400> 11922
agcttgtacg ctataatgat tatgattggg ctcaaatga tgatgatcaa agaagtatta 60
atggatttga gtttttaagg gggaatccaa ctttcctgga atgaaaaaag cctcaatttc 120
ctttttactc gtgaggggca aaaccttaa aagtaacatt aggccttcgt cctgtaatcc 180
ggcttagaga attgtaaaaa gagttggaca tgtcacaaga cgatcagacc atcacctttg 240
gggataataa gtcaaccatt gctctagtaa acaacctcgc gttccgtgat cgaagcaaac 300
atattggcac tcgttaccac tacata 326

<210> 11923
<211> 330
<212> DNA
<213> Glycine max

<400> 11923
agctttgatc ccaagaagc ttgccatgac cattatcttc aagcccatca cttttcccaa 60
cacacaaaca aaagggata gaagaaccaa aactatggct cttataagcc ccctgcctc 120
aaagggcacg agcatgaaat atgggaacaa agaagaggat ttcaacaacg cgttttcgac 180
aaaaagatc aacgtgtgat cgttgaggtc tgatcggtgg attaaagagg ggaatttcag 240
gratttggtta aactgtgttg gtgcacccga aaaagaattg ctaatgggtc tgtggaaacg 300
gacgaggttc ctgagttgcc taaagagaaa 330

<210> 11924
<211> 369
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 11924

aagcttcttg aagccgttct cataactggc aaccgaatga atgatggaac tntccgcggt 60
ggtgcacaag cattttaaact tgatacactt ctgaaattat ctgatgtaaa aggaacagat 120
ggcaagacta cactcttaca ttntgttgtt ctagagaata tccgctccga gggcataaaa 180
gccatcagaa agggcaaaaga gagccagaaa tcgtctagta ttaaattgga tgaccttcac 240
gatagtaccc gagaacaga agatcgctac catgaaatcg gtcttcatgt ggtttcacga 300
ttgagcagtg aacttgagaa tgtaaaaaaa gcagcaatta tatatgctga cagcttaaca 360
ggaactact 369

<210> 11925
<211> 326
<212> DNA
<213> Glycine max

<400> 11925
agcttctcag atgtcattgg tatcattgac cttgtggcag caagattgcg tctgtcctc 60
ccttgctccc gaacaccatc tccatgttct tccccagaaa caagcttatt ctttcttggt 120
ggcaatacca tattagacac cttttgaaca ttttgtccag atttctggtc tatctcttct 180
gctttectac ccttttcttt tggtttaaca tcagccaccc ctgactcttc actttcagat 240
aaggcagctg aagatgaagg atcacctttt agtttaattt gctgaggaga actgccagcc 300
aagcgtctgg caaattctaa cccaag 326

<210> 11926
<211> 328
<212> DNA
<213> Glycine max

<400> 11926
agcttatgac cattttaatt tttttttagt ttccattggt caataaccaa tgtctcgata 60
tattatgcac ctgaatcgga aatccaagtg aaaagttatg accatttgaa tttctcgagg 120
gattttgttg atcaattttc agacgtctcc atatatggtg tgccatgaatc ggaccttcgt 180
gtgataactt atgaccattt gaatttcttg agagatttcg ttgttcaatt tctagcgtct 240
cgataaagga tgcgcctgaa tcggacatcc aagtgaaaag ttatgaccat ttgaattgct 300
cgtcagcttc cgttgttcaa tctccagc 328

<210> 11927
 <211> 328
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11927

tagcttcaca aaagtttata ttgcttgaaa caagcacctg tgcagtgggtg caagaagttt 60
 aatgagttta tgagcaactc gggattcaaa agatgtgaca tggaccattg ctgctatgtt 120
 aagaaatata ctaatagtta tgttatcttt gtcgtgtatg ttgatgacat gttgactgtg 180
 ggatctagta tggcnnaaat taacaagtcg aagcatcagt tggcagaaaa ctttgaaatg 240
 aaggatcttg gtccagctaa acaaatcctt ggtatgagaa ttcttagaaa cagatcataa 300
 cgaatcttgt agctgtctca cgagaaat 328

<210> 11928
 <211> 255
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11928

tagttcaagt ggcactcttg tgcacacaat atctttcggg ccacaggccc aaaatgtctg 60
 atgttgtacg catgcttgaa ggtgatgggc ttgcagagaa atgggaagcc tcacaaagtg 120
 ctgacactac caagtgcaaa ccacaagaac tctcttcac agataggtat tctgacctca 180
 ttgatgactc ttctttgtta gtccaagcca tggaactctc aggccctatg atgtgaacct 240
 tacgngcgg atcgc 255

<210> 11929
 <211> 330
 <212> DNA
 <213> Glycine max

<400> 11929

agcttcaaca tcaggattct tttaatggct atggcggata tcaccatgac cgtaattaa 60
 gaaaaaaatt atatttaagc atctaattaa agtaattatt tttagggata taataagaac 120
 atttatctat aatgcacctt attaaagtaa ttatctttag agatcatatt ataatatata 180

tctataatgt gtctaattaa aataattatc tttagagatc atattaaaat atatatctat 240
 agtgtgacct attaaaataa ttgcatttag aagatctata aatagttgga gtttgaactc 300
 tcgggattcg aaattcatta tacattttac 330

<210> 11930
 <211> 196
 <212> DNA
 <213> Glycine max

<400> 11930
 atctcaagac taactatgac aggatttttc ttgaagaaat agctcaagcg gcactctggg 60
 gcacacaata tcttcggggc cacaggccca atatgactga tgttgtacgc atgcttgaag 120
 gtgatgggct tgcagagaaa tgggaagcct cacaagtgct tgacactacc aagtgcaaac 180
 cacaagaact ctcttc 196

<210> 11931
 <211> 329
 <212> DNA
 <213> Glycine max

<400> 11931
 agctttccat tctcttgga gttcatcatt ggatttgact tcttctggag gatcttcatt 60
 gattcccttg tcatttcctt tggaatcttg ttcataatg ttcataatg ctaaagaatc 120
 tgcagtgtca tctagcatat tctttcttga caatatatca ttagattcat caaaggtaac 180
 atgaatggat tcttcgatat acatagttct tttattatat atcatatatg ctttgctttg 240
 taatgaatat ccaagaaaaa taccttcacg agattttgca tcaaattttc ctagattatc 300
 tttaccatta ttaagcacia agcacttgc 329

<210> 11932
 <211> 295
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11932
 gcgcctgaat cggactgtgc tttgagaaga tatgaccatt tgaatntctc cagagctttc 60
 gttgttcaat ttctagcgtc ccaatatatt atgcgcctga atcggaactt cgtctgacaa 120

gttattacca tttgaatttc tcgagagcat atgttggtca atttcgagcg actcgatata 180
 ttatacacct gaatcgggca tccgtgtgac aagatatgac catttgaatt tcttcagagc 240
 tttctatgtt aatttcgagc gtgctcaata tattatgcgc ctgaatcgga ctttc 295

<210> 11933
 <211> 446
 <212> DNA
 <213> Glycine max

<123> unsure at all n locations
 <400> 11933

agcttctcga tatattatgc acctgaatca gacttccgtn tgataagttg tgaccatttg 60
 aatttctgga gagattccgt tgtgcaattn tgagcgtctc gatataattat gcgcctgaat 120
 tggacttccg tgtgattagt tatgaccatt tgaatttctc gagagcttcc ggtgttcaat 180
 tccagcgtc tcggtatata atgcgtcaga atcggacttc cgtgtgacaa gttatgacca 240
 tttgaatttc tcgagagctt tcgttgctaa atttcaagcg tcttgaatat aatgctcctg 300
 aatcagactt ccgatgaga agtgatgacc atttgaatct ctcgagagct tccgtggatc 360
 aatttcaagc tgctcgaata tgatgcctcg tatccgactc cctgtgaaag ttataacctt 420
 taattcccaa agcgcgtttg ttaata 446

<210> 11934
 <211> 409
 <212> DNA
 <213> Glycine max

<400> 11934

agctcgggaat gtagtcatac cacacaaaat atatatatgt atgttgaggt agaaagataa 60
 cttagatatg catgtatgta aacaaaaaca cacttcacaa aatatatata tatgtatgtt 120
 taggtagcaa gatacccttag atatgcatgt atgtagcaaa aagatacctc acaaaatata 180
 tatatatatg tatggtagca agataccttg gatatgcatg tatgtagcaa aaagataacct 240
 cacaaaatat atatatgtat gtttaggttag caagatacct tggatatgca tgtatatagc 300
 agaaataacct cacaaaaata tacacatgtt taggtagcaa aatacctcat gaaaaaaaaa 360
 aaaagcaaac tagagaaaga aatacacaaa tgataatgat caaaaaaaaa 409

<210> 11935
 <211> 497
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11935

cttgtaaacg aatgaagctc taataccact tgtagacaa gtggcctcag atatcttaag 60
 aaggtggggg ggttgaatta agatattgca aactatttcc ccaattaaaa ttctatttta 120
 atttcaatgc aagttccaag ttcccttaaa aatgaacttt taaatgatga ttcaaactaa 180
 acaactctaa tacaatgta aagcaataat aaataacaga gtttaaggga agagaaagtg 240
 caaactaaag caatctaat acaaatgtaa agcaataaat cctaagcaa cccgcttgag 300
 agtttctacta tcttgtaaaa tctttttaca agttctgaac cacacaagga caaatctctc 360
 tttgtgttca gatttcttta caacaagaga ccttcagtct ctcaatccct tngagaataa 420
 gatagaagag aagaataaat ctatctcgaa agagatagat tgtacaactc gagcactcaa 480
 ttaattcctt attgaat 497

<210> 11936
 <211> 499
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11936

aagtcacctg cggcatgcaa gcttagactg agttcagcct accatcctca tactgatggc 60
 caaactgaac ggaccattca gtcattggag gaccttataa gagcatgtgt cttatagcag 120
 aagggaagct gggagggttt tcttccattg atagagtcca cttataacaa cagttttcat 180
 tctgccattg gcattgctcc ctatgaagct ttgtatggtg gaaggtgtag aacaccctca 240
 tgttggttag agcccggaaga aggcctcaca ttaggaccag aagttgtaca acaaaccact 300
 gagaaagtta agttaattca cgagaggatg acaactgctc agagttaggca gaatagtatt 360
 catgataaga ggaggaaaga tctacaattc gaggttggtg atcatgtatt cttgagagtc 420
 actccatgga ctggggcttg gtgagcattg aaatcccgac nactcacacc tcgctttatt 480
 ggctccttcc agattctta 499

<210> 11937
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11937

agcttatgct gcanacatct acagtagacc tcctcaatct caacagcaaa atcagccaca 60
 atagaataac tatgacctct ccagcaacaa gtataatccc agatggagga atcatcctaa 120
 ccttatatgg tcgaatcctt cacaacagca acaacaacaa cagccttatt ttcaaaatgc 180
 tyttggccca agcagaccat acgttctctc accaatccag caacaacaac aacaacaaca 240
 gccccagaaa caacaaatag ttgaggcccc tccacaacct tcccttgaag aacttgtgag 300
 gcaaatgact atgcaaaaaca ttcagtttca gcaagagacc agagccttca ttcaaagctt 360
 aactaatcag atgggacagt tggctacaca gttaaatcaa caacagtcctt acaattctga 420

<210> 11938
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11938

agcttangct gagttctact taccaccac atactaacga ttagaccaag cgcactatca 60
 aatccttaga ggacctcttg agagcctgtg tcttatagca gcggtgtagt tgggatgggt 120
 tcttaccctt gatagagttt acatataaca atagttttta ctccagtata ggtatggcac 180
 cttacgaggc gttgtatggt agaagatgta cgacacctct atgttgggta gatctaagtg 240
 agagcattgc cttatgacct gaggtgggtc accagaacac tgaaaaggtc aagttgatcc 300
 aatagaggat gagagtagcc canagtaggt agaagagcta ccatgtanga atagatagga 360
 ccttgaattt gttgcagggt atcatgtatt cctgacagtc actccatgga ct 412

<210> 11939
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 11939

atgcttagtt aacctggtaa cccagctatc gttgaatcag aaatctatac ctgtcgcaaa 60
 agtctatggt ttatgtcct ctgccgacca ccacacagat cttttccctt ccatgcagca 120
 acctggagca attgagcagc ttgaagctta tgetgcaaac atttacaaca gacctctca 180
 acctcagcag ctaaatcaac cacagcagaa caattatgac ctctccagca acagatacaa 240
 tcccggatgg aggaatcacc ctaatctcat atggtctagc cctcaacaac aacaacagca 300
 gcctgtcctt ttctttcaaa atgatgctgg cctaagcaag ccatacatte ctccaaccaat 360
 ccaacaacag caacagcccc agaaacaaca aacag 395

<210> 11940
 <211> 460
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 11940

tcttcaactt tgtattcaag tttttacatc aattcttttg aatcttacta gtcaaaaaatt 60
 aaaataatat taaaatcctc attatttcat taaaaacaac attatagtag aggaattgta 120
 atcattctta agtcaaaaatt gactatcaat taaactcaa cttcgagctt atcactcatt 180
 attttcaaac aacttgagct tgtgagaagt ttactgaac ttgatataatt tctatctaca 240
 taggctatgc cttggtgcat ggtcagacca tggtgaaagg actggtggat tntatgcttg 300
 caatcgttat gaagcagcta aacaagaggg agtggttaagg gaattagaaa tactctactt 360
 cattggttca ggttcgatgat accataacct actgcccctg catatatattg ataacgatat 420
 ttcttctgac taaatgttgt gcatgtagta tgataaactg 460

<210> 11941
 <211> 451
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 11941

actcggcatg ggacctgana tgttgttccc actcagatcc aacaatgtca aagatctcaa 60
 actagtccaa ttactaggtta tcccaccact gatatcatta cctcccaacc ttatctcaac 120
 aagagaatcc aactttgcaa cagaaggact caaagtccca ctaatattaa acttttccaa 180

aagaatcatg tccaccttcc catccccatt gcaccttate cccaaccatg gcccatcaca 240
 aggggtcattc ccactccact catcaaccaa aatccgagga taccccaacc ctccaagaaa 300
 ctccaacaac accatcacct caaaaccaca cataaccccg ggtttggeca cacaaaattc 360
 attgttctca aagctcactt tactcngctg cgaaatccgg atcggaccca cganagtgg 420
 gtattcanat caatctatcc aacttcattc a 451

<210> 11942
 <211> 342
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11942

gaactacaga gatttatattc taattctaaa cccacaaatc aaactaatgt tatgcaggat 60
 tacaacgcaa aaatttcata ttttggttg gcgaaattag ggcccttcggg tggagattca 120
 cactgtgagta cgaggatcat gggaacatat ggctatgctg ctccagaata cgttgcaaca 180
 ggtgaacatg tcatcttate taaacacata tatatagaga tggtttgatga atatgctatt 240
 tgaagttgaa actaatcgtt ttatgattca acatgacacg ctttcgtgaa gagtgatggt 300
 tatggatttg gtgtggtgct gctagatatg ctgacatgga tg 342

<210> 11943
 <211> 324
 <212> DNA
 <213> Glycine max

<400> 11943

ctgcagctgg acttctgtgt ttgagaacct cttcttcttc aggtgtaccc aaaccaatc 60
 acctgggttca agcagcactt tctttctgct tttgttggtc tgccttgcat agcttgcat 120
 attcttttca atctgaacct tcaactagctc atgcaacttc ttcacatact cagctttagc 180
 ctgtgcattc ttatgcttaa acatatcact gttagacata cgcaacaaat caagacgagt 240
 caaaggatta aatccatata ctatctcaga tgggtgaacaa ttatatgtgc tgtggacagc 300
 ccgattataa acaaaactcaa catg 324

<210> 11944
 <211> 488

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 11944

 ggatccttaa gcacctgagg catgcaagct tgtttaccac atgttgagtt ngcttacaat 60
 agagtgttgc atagcactac taattgttct ccttttgaag ttggttatgg ttttaaccta 120
 ctaactcacc ttgatctttt gtctatgcct aatgtttcta tttctaagca taaagggtcaa 180
 gcaaaagcgg actatgtgaa gaagcttcat gagcgagtca tagatcatat tgagaggaaa 240
 aataaaagct atcttaaaca agccaacaaa tggagaaaga aatttgtctt ctaaccggga 300
 gattgtgttt gggagcacat gagataagaa aggtcttcgg aacatacgaa atcaaagctt 360
 caaccaaggg gagatggacc attttcagtg cttgaaagaa tcaatgacga tgcttacaaa 420
 gttcagctac ccagggagta taatgttagt cccaccttca atgtatctga ctcatctctc 480
 tttgatgc 488

<210> 11945
 <211> 342
 <212> DNA
 <213> Glycine max

 <400> 11945

 ttaaatatcc tcagtcataa cagcctcacc ccatatatat ttgggaactt tagtagaaaa 60
 gagtaatgcc ctaccacact ctataagggtg tgtattaatt ctctctgcac tcccattttg 120
 gtggcgggtg attaacacaa caactatgat agacaatctc attttcaaga aacaaacttc 180
 ctagggttgc gtcaaaatat tgcaccccat tatcactact aactacttgt atattaacac 240
 gaaattgact ttgcaccatc ataaggaaat ctctgacatc tagtttacct acagatcttt 300
 cttataatat gtacacccaa caaagcctag tgtggtcacc ta 342

<210> 11946
 <211> 258
 <212> DNA
 <213> Glycine max

 <400> 11946

 ctcttacagg tgactttgag cgtttgtgtc eggaggagta cccaacattt cctgattatc 60

tctctcgagt attggccgcc ctccatccac ttatcagaga tggatgaagat ggcgatgacg 120
 tgcattgac gtaaaaaata cttcgaactt taaatgcaag gtctgacttc attggtacca 130
 acattgacga aaacgccgat ttaaggacca tgactattga gcaactcatg cgttccttac 240
 ttgacctacga tgatgctc 258

<210> 11947
 <211> 370
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11947

ggatccttaa tcacctgcgg ctgcagctgg attccttttag tagganatct attcttecta 60
 agatagagcc aaacccagtc accgtcatta agaactaact cttttcttcc tctattgect 120
 ttagttgaat acacctttgt ttggttctct atttggttct taacctttc atgcaacttc 180
 ttacaaaact ctgactcaga ttccctttt ttatgtataa aagaagtgtc tagtgaggag 240
 ggaatgaggt ctaatggtgc taggggattg aacctataga caacctcaaa aggggattgc 300
 ttggtggttc tatgaacccc cctgtttag gaaaattcta catgaggaag atacttatcc 360
 caagacttat 370

<210> 11948
 <211> 465
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11948

agcttgttgt aggtttcata atatgaaac tgaatatata tgtgcacgga cgcattgtaa 60
 tgcattacac acatattgta atcgattacc atacagcaat gttgtcagac ataactgctt 120
 gtaatcgatt aactatttat ggtaatcgat taccagaggt tatttgagcc aaaaaataaa 180
 aacaaaaggc tttctaggag agaagaagtt ttgagtact atcacaatac tttttcatga 240
 gaaatatata taagaatact ttatgaataa ttcttaatca tgtaattcac atatcatatt 300
 atgcacgaac attaaaacat gtaaaataac aattntatca aaacaataca cacaagtatg 360
 aagagtattg attntattga aatatatgaa tgaatatttc atgcaataa gatgaaatca 420

<210> 11949
 <211> 305
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11949

tatagtctga attctgggtc ctcttaggga ctnatacaat atatccgctg gctgggtcatt 60
 agaaccaatg aactcgatga caatctcctt ggacagaagc ttctctcgaa tgatatgaca 120
 atcaatctct atatgcttag tcctttcatg agagactggg tttagaggcag tatgaagagc 180
 atcctgatta tcacaatgca acttcatttg caactcttca caaaacctca attcttgac 240
 aaattgtcaa atccacatga ggtcacacgt taccatagcc atcgatcgat atcaggcttt 300
 gcaact 305

<210> 11950
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11950

agcttatccn cataagagtg cagaacagct ggtagtcat cattgattat aggaggctaa 60
 tccaggtaac caaaaaagat cattttcccc tgccattcat tgatcaaatg cttgagcgct 120
 tggcaagtat gtctcattac aattttttta tggtttttct ggttatttac aaattcatat 180
 tgctcctgag gatcaagaaa acaccacatt cacctatccc ttgggcattt ttgcctatag 240
 gaggatgccc ttgggcctat gcaacgcctc tggtagcttc caacggtgta tgcttagcat 300
 ttccaatgat tttttagaga gttgcataga tgtgtttatg gatgatttta ctgggttagg 360
 atcctctttt gatgcatgtt tggatagtct agatagagtt cttaatagat gcattgaaac 420
 taaccctgtg ctgaattttg aaaatgtcac ttcat 455

<210> 11951
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 11951

atgcttggtt aacctggtaa cccaactggc catgaatcaa anatctgcac ctatcgccag 60
actctgtggt ttatgctcct ctgccgacca ccacactgac ctttgcctt ntatgcaaca 120
atctgaagca attgaacaac ctgaagctta tgctgcaaac atctacaaca gacctctca 180
acctcagcag caaaatcagc cacaacagaa taattatgac ctctccagca atagggtacaa 240
tcccagatgg aggaatcatc ccaaccttag atgggtcaaat ccttcacaat agcagcagca 300
acaacaacaa ccttattttc aaaatgttgc tggcccaagc agaccatacg ttctccacc 360
aatccagcaa caacaataac aatagcccca gaaacaacaa acag 404

<210> 11952
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 11952

agcttcngct tattagtgc catctccttc aataatttag catatcttg aatttgcttt 60
attgcatcca gtagaggtat gtctacctct acttttctaa atgtttccaa gatctccttc 120
tttggtcttt ccattttttt gatggaaatt gctcttgag ggaatggaag agggatatgt 180
tgcttctctt tagattcacc tgcatagaaa ttggtaggta tcttactctt taaatttttg 240
tcatcatctt tttctggagt agagagaagt tgggcagggt catttgcaca tgaggaagat 300
gttgcttggt gaggttcttg acactgcttt ccgcacctca atgcagtggc actcacatat 360
ttgggattct ggacagattg agaacgtaat ctgtcacaat tctgggactg ttgttgatta 420
act 423

<210> 11953
<211> 394
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 11953

ntggcaaac aaggtgagag gctttatttg gaagtgtgtt ggggaggagc aatctgcttt 60
caccgaagg agatcgattc tggacaatgt gctcattgca gtagaaatca ttcactatct 120

taaatccaag accagagggg gaaatggata agtggcctga agattgatat atgtaaggcc 180
 tatgacctcg ttgactgggg ttcttagatg caatccttgt caagtgtgta ttttgcaatc 240
 aatggaccga gtggatgatg atgtgtgtca aaactgttta gtatgtagtg gtagtgaatc 300
 atgacaaggt tgatcctatc tcccctgaga gatctctggc aaggagatcc cttctccctc 360
 ttttatatat ataatttttag ctcaaggtct taca 394

<210> 11954
 <211> 357
 <212> DNA
 <213> Glycine max

<400> 11954
 agctttttat ccaactgggt taaggttcaa gaactctagt gatggtaaag cttctcctt 60
 ttctttctct tttgctttga ttatattccc tgagtatgaa aagttaggag ggcattggtc 120
 tgcttttaca attgcattct ctaagaatct caaggctctt ccaagtcagt atcttggtct 180
 tctaaactca actagcacag ggaactcctc caaccacctc tttgctgttg agtttgacac 240
 tgccaagat ttttagtttg gggacattga tgacaacat gttggaattg acatcaatag 300
 cttggtctcc attgcttctg cactctgatg ttactacacc gggggtgatg ataattt 357

<210> 11955
 <211> 361
 <212> DNA
 <213> Glycine max

<400> 11955
 tcccctgggc ttctttgtga agctttctca agaggcttct ttgagaagct agatccttat 60
 ctaccacac ccattctatt actaaattaa cctccttaaa aataattacg gataaaataa 120
 cacaacaaat acagtcaagc atcaaacata attattaata tatagatata tatatcaggg 180
 tgttacaact ctcccacct tttagaaatt tcgtcccgga aatttacctt actcaaacat 240
 ggatgggtga gcttctcgca tttgacttct taattcccat gtggcatctt ctctctgtgc 300
 acctccccag atcaccttga ccaacggaat ctctttccct ctaaggtggt ttgttcgct 360
 a 361

<210> 11956
 <211> 397
 <212> DNA
 <213> Glycine max

<400> 11956

tcactctcat tcccttctcc acgctgacca catagtagag tctatttcat caacgaatat 60
 gatagaaggt gcactttcgc gtgccatttg gaaaagattt gagaccagct ttctactttc 120
 tcccatccac ttgaaacca ggtctgacga agaaacactg gtgaagaatt aaaaagttaa 180
 aacatgtagc aaaaaaatgc ccacctaacc taagcactta catttgcgac cttatttttc 240
 aaacaaaatc actgacaagc agaactatta gactcagaaa ttgaaaatgt taaaaataac 300
 aatgttgatg attatgtgaa atcatocata tgcacacaca ttcattccacc aaactcagtg 360
 cgtgttttga ttaacattga atgattcaaa accacat 397

<210> 11957
 <211> 278
 <212> DNA
 <213> Glycine max

<400> 11957

agcttattca catagtcacg actgtttctt atcttcttta tgcataaaaa cagaaacatt 60
 acgcatacgc aaaagatcac gaagacgcag tgggttaaaa ccataaacia cttctgaagg 120
 agaacaatta gtggcgctat gaacagcttt attgtaagca aattcaacat ggggtaaaaa 180
 agctacccaa gtttttaagt tctgtctgac aactgttcta agcaaaagttc ccaaagggct 240
 attaacaact tccgtttgcc cattacgctg ggggcgac 278

<210> 11958
 <211> 311
 <212> DNA
 <213> Glycine max

<400> 11958

taagctcctt caactgcaca aggcctctta tatttgaaga gtatccttgt ggaaccttca 60
 cccgacgaag acaactggcaa aaactaatct tctctttatt ggacaaagtt tggcagcgtg 120
 ggggcaagta aattttcttc ccatcaaacc ttggatgcaa ctgcgctctt ataccatatt 180
 cagctaaatc ttgacgggta ttcaagccat ccttcgtctt gccttgaatg ttaaggagcg 240

tcccaatcac actgtcacaa acatttttct ccacatgcat aacatcaata caatgtctaa 300
 cgtcaagatc a 311

<210> 11959
 <211> 339
 <212> DNA
 <213> Glycine max
 <400> 11959

agcttcatgg gagagtcaaa gatcaaattg agaggaaaaa taaaagctat gctaaacaag 60
 ccaacaaaagg aagaagaag gttgtcttcg aacccgaga ttgggtttgg gtgcacatga 120
 gaaaagaaag gtttcgggaa cagaggaaat caaagcttca accaagggga gatggaccat 180
 ttcaagtgtc tgaagaate aataacaatg cttacaaagt tgagctgccg ggtgagtata 240
 atgttagttc caccttcaat gtctctgatt tatctctttt tgaagcagat ggagaattct 300
 atttgaggac aaattcttct taagaggagg agaatgatg 339

<210> 11960
 <211> 361
 <212> DNA
 <213> Glycine max
 <400> 11960

ttgaatgctc tattcactgg agttgacaag aatatcttca gactaatcaa cacttgcaca 60
 gtggccaaag atgcatggga gatcctgaaa accactcatg aaggaacctc caaagttaag 120
 atgtccagat tgcaactctt ggctacaaaa ttcgaaaatc tgaagatgaa ggaggaagag 180
 tgtattcatg acttccacat gaacattctt gaaattgccg atgcttgcac tgccttgagg 240
 gagaggataa cagatgaaaa gctgggtgaga aagatcctca aatccttgcc taagagattt 300
 gacatgaaag tcaactgcaat ataagaggcg caagacattt gcaacatgag agtggatgaa 360
 c 361

<210> 11961
 <211> 386
 <212> DNA
 <213> Glycine max
 <400> 11961

agcttttctca cgcacatcag tccacttaca ccacattctt tttgacaagt tcattttaaag 60
 gtgcaacaag taaactgagg ttcttcacaa atcttctata aaaagttgct aaaccataaa 120
 aaattcttac cttattagca tttttaggtg caagccattc cctaattgcc tttacctttt 180
 cttcatccac acttattcct tttgagctaa tgataaaact caagaacaaa acatattcaa 240
 ggcaaaaaga acatttttat aagattggca tacaatttat tttctctcaa aacattaaaa 300
 acaatgtgtt cctctaattg tttgctatag atcaaaatat catcaaaata caccacaaca 360
 aatttcccaa tgaagcacac aaaaca 386

<210> 11962
 <211> 297
 <212> DNA
 <213> Glycine max

<400> 11962
 catgcaagct tactactaga atagattctg ttatagtaag ttctgtctaat taaaatttta 60
 ttgtatttat attctgataa tcattagcaa tgagtgcctat tactttggta tcttagatta 120
 gtattaacta gaaatagttt tgtgcaataa atttattctt agtgataaac aatattaggt 180
 ttaggaaaaa atatctatta tatttgtatt ttgataataa ttaataatgt ctgttattac 240
 ttccctattt taagttagct ttacttagaa aaagatatgt tccatcaatt tattttc 297

<210> 11963
 <211> 189
 <212> DNA
 <213> Glycine max

<400> 11963
 aatccccaag taggattctg tctcaagaca caccgtaaaa ttcttgattc agagcgtgcc 60
 caaaatgggc taattccaca taacaatatg tatgatataa ccccaaatct ccataagttc 120
 acttcaacac tgtaagaact aaggagcact tcatgagcaa cgctatatgc aactgtcaac 180
 aatgtcaat 189

<210> 11964
 <211> 375
 <212> DNA
 <213> Glycine max

<400> 11964

agcttgga caagcaatga acgctttggt ttcttgagtg gctcctttgc agagaattat 60

ctgacagagg agctcaacat tcacagatcc aggcttggtc ctctcaactc accatcataa 120

tatgaaacgg ccttgaaaga tggctctgct gatgggggtg tcaactgcaat aatagatgaa 180

cgtgcataca tggagctgct ccttgcaacc agatgtgaat acggctctgt tgggcaagag 240

ttcaccataa tgggttgggg ctctgcaaga gcattatcca tctcctcttt ttgaaatcca 300

caatcagata tatcacatgc attctcccaa atattaaaga tccgggtttc aataaatcta 360

agaccatcct ttcta 375

<210> 11965

<211> 342

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11965

ngcattattt tatttattta ttttggtgac aaatatatth ttgcttgagg tctggttatt 60

acgatgaagc aagaaatggt gcccaatctt cacatcaatt tgctcctttg gtacatactg 120

tggctcactac ttatttacta atttatgatt taatctttct taataattta cttatttatg 180

acagctggca gagtggatta ataaaggagg gatggtacct gaagagattg cagctgccgc 240

atcagaggaa tgtgaaagaa tgttgattgg cattacccat tgacttgatga aatccaagta 300

cacaaaaaat tcccacaaaa gatatatgaa ataattgtta ag 342

<210> 11966

<211> 331

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11966

ngaagacaag cctgaggaag aagggtgtga tccaactggt tacaacacagt tggtaggctc 60

actgagatac ctctgcaata gcagaccaga tatctgttat gccgtatgag tgctgagtaa 120

attcatgaat aggcacaaaga aatctcattt ctggctgtc aaaagggttc taatgtatgt 180

gaagggaact atgcagtatg gtgtgatgtt tccaagtaat gttgatggtg ctgagatgaa 240

attgattggt tactcacatg ctgattggtg tggggacagg acatatatga gaaacacatc 300
 tggctacttg ctcaaatttg tggagctgct g 331

<210> 11967
 <211> 384
 <212> DNA
 <213> Glycine max
 <400> 11967

ttcgagaaat tcaaatagtc ataacattta actcggatgt caaatttcgg ggcataatat 60
 atcgcgacac tcgaaattga acaacgaaag ctctcgagaa atttaattgg tcataacttt 120
 taactcggag gtccgattca ggcgcataat ttattaagac gcttgaaatt gaactatgaa 180
 agctcttgag caattcaaat ggtcataact ttccacacga aggtcagatt caggtgcata 240
 atatatcgag acgctcgaaa ttgaacaacg gaagctctcg agaaattcaa atggtcataa 300
 cttttaactc ggatgtccga tttaggcgca tcacatatag agacgcttga aatcgaacaa 360
 cggaagctct cgagaaattc aaat 384

<210> 11968
 <211> 397
 <212> DNA
 <213> Glycine max
 <400> 11968

agctgacgcg tgcgcgcttc cttgagaaga tgtgtataga agctagagct tagctacaca 60
 cactctctca atagctaagc tcacctctct gagatgagaa gctagaactt aactacacac 120
 cccgtataat agctaagctc acccccatga caaaatacat gaaaatacaa aaaaagtccc 180
 tactacaaag actactcaaa atgactcgaa atacaaggct aaagccctat actactagaa 240
 tggccaaaat acaaggccta aacgaaggaa aaaaaaccta ttctaattatt tacagagata 300
 agcgggctca tacttagccc atgggctcaa aatctaccct aaggctcatg agaaccctag 360
 ggccttcctt tggatctctg gcccaatcta cttggag 397

<210> 11969
 <211> 270
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 11969

tgtanaaaat tattaaatat tataatgttg ttggattgta tnaatgtgtt tagnttaaatt 60
gattaaanat gttgttttaa agtatgaagg tnattaagnt tgtgaattaa tttaaaaaat 120
ttttgtaata nagtatgaaa agtataattt attaaattat nnnntaaaat tataattgaa 180
ggacaaaant tatagtatnn agtaggtggt tttagtgtta tnnaattaaa tgttagagtt 240
atatatnagt aattttttta ataaatgttt 270

<210> 11970
<211> 317
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 11970

agcnttgatt tcctttgttc cggatacctt tcttttgtca tgtgcacca aacccaatct 60
ccgggttcga agacaacctt ctttctccct ttgttggtt gtttagcata gcttttattt 120
ttcctctcaa ttgatcttt gactctctca tgaagctgct acacatagcg ggcctttgct 180
tgaccttctt tacgctcaaa aaaagaaaca ttaggcata gcaaaagatc aagaggagtt 240
agtgggttaa aaccatacac aacttcaaaa ggagaacaat tagtggtgct atgaacagct 300
ctattgtaag caaatcc 317

<210> 11971
<211> 400
<212> DNA
<213> Glycine max

<400> 11971

cgagggtgtg gatgtgtcga ggaatacgtt cgggtgggcat gtgcctatgg agcttgggaa 60
ttgtactgag ttgtctgtgc tgcttttgtc taatcttttt agttcagttc cggatgttaa 120
tggtaacttg ggggactccg ggggtggagca catggttgct atgaatattg atgagtttaa 180
ttacttagaa ggcccggttc ctgttgagat tatgaacctt cctaagctga gactgctgtg 240
ggcgctatg gcgaatctgg aaggcagttt tatgagcagt tggggcaagt gtgatagcta 300
ggagatgcta aatttggttc aaaatgatgt cactggggat tttcctaate agcttggttg 360

ctgcaagaat cttcattttc ttgatttgag tgccaataac

400

<210> 11972
<211> 396
<212> DNA
<213> Glycine max

<400> 11972

tctagcttat acgggcagac atcttattaa ctaataaagt tttgatgtaa tcttcatta 60
acctctctgc atttgataaa ttatcttcat ctttgtaaag caggtcaatc atgcgcacaa 120
ggttgacaac acgcaaaaaga aaattcattg gcacttcagt aggattaagg catgcctcat 180
tgatgtcctt ccaagcactc ttaaccatct caagtagttt attaatggca tcttgccctg 240
agggtgttatg ttgcttcata tagctttcaa tgettgtatgc aacgtgtctt ctttctctgt 300
caaactttgg ggaaaaaaat taatactaaa gaaaccaatg tttaacccgt aaagtaaaag 360
ttgggtattac caaaattata aggtaaatta aatgtc 396

<210> 11973
<211> 297
<212> DNA
<213> Glycine max

<400> 11973

agcttgtgcc tcttcacgtc tggaatatga atgtatcata tagatccaaa gacctttatg 60
tgctttgtctg atggcttctt cccgttccaa gcttcaattg gagtcttgtc ttttacagac 120
ttagttggac atctgttgag tatgtaaaca gcagtgtaga ctgcttcagc ccaaaatgtg 180
ttaggtagtc cttctcctt aagcatcgat ctagecatct tcataaatgt gctattcttt 240
ctctcggaca ctccattttg ttgacgagaa tatgcaactg taagttggcg ctcaatg 297

<210> 11974
<211> 366
<212> DNA
<213> Glycine max

<400> 11974

tgtaatcttt ggatccttga agatatctta acactttctt tgcaactgac taatgctcta 60
ttcctgaatt actttgatat attccaagca ttccaaccac aaatgccatg tcaggctctg 120

ttcacacctg ctcatacata atgctttteta caatggaagc atatggaatg tttctcattt 180
gttccctttg aagcttattt ttaggacatt gattcaaact gaatatatca cctttcacaa 240
taggtgtcat gttgggtgaa caatcttcat gcaaaacatc tctagaactt tgatagtatt 300
ggccctttga gagaacccga gaataccttg atatcagttt ctatggatct ctatgccaat 360
gacata 366

<210> 11975
<211> 271
<212> DNA
<213> Glycine max

<400> 11975
agctttatgc aagtcaattt tcaggaggca tctcggagag gatcttttcc ggccatattt 60
gcacaaaatc tcttgaacta ggaagatgtt gtccatcacc tttctgttct taatgaaagc 120
agtttgagtt tccccataa tagtctcaag cactggggct atgcgggttg ccagaatttt 180
agatacaatc ttgtataaca aattacagca agatatgggt ctaaaatggg taacctggga 240
ggcctgatca tgcttaggaa taagcgcaat a 271

<210> 11976
<211> 269
<212> DNA
<213> Glycine max

<400> 11976
agctttgttc taattcaaat gacaataatg atttgcctcg atgtctgatt gagtcccgta 60
atacatcgag acgctcgaaa ttgaatgttg aagctctcag caaattcaaa cgacaataac 120
ttttactcgc gatgtctgat tgagctccgt aatacatcga gacgctcgaa attgaattct 180
gaagctctga gctaattcaa acgacaataa ctttttgctc ggatgtctga ttgagctcgc 240
taatctattg agacgctcga aattgaatt 269

<210> 11977
<211> 256
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 11977

agctngtata aaaatcgaac gacaataact ttctactcgg aagtccgatt gagtcccgt 60

atatatctac acgctcgaaa tttaaaaccg aagcttgtag caaatcgaac cgacaataac 120

ttttactcgg gaagtcggat tgagtcctcg catatatcga gacgctcgaa atttaaaacc 180

gaagctcgta gcaaattcga acaacattac cttttccctc ggagggtccaa tggaggcccc 240

tactttatca gaaccc 256

<210> 11978

<211> 260

<212> DNA

<213> Glycine max

<400> 11978

agctttttatc aaattcaaac aggaataact ttttactcgg atgtccgatt gtgtctcgta 60

gtatatcgag cgctcgttat tgaaaacaga tgctcataga aaattcaaac aacaataaat 120

ttttattcaa atgttcgatt gtgtcccgta atatatcgag atgtcaaaa ttgaaaacga 180

aagctcgtag caaatgcaaa ccagaataac ttttaactcg gatatccgat taagtcccg 240

aatatatcgt gacgctcgaa 260

<210> 11979

<211> 258

<212> DNA

<213> Glycine max

<400> 11979

agctttttgtg aaattcaaac ggtctaaact ttccacacgg aggtccgatt cgggcgcata 60

atttatcgag aactcgaac ttgaacaatg caagctctcg agaaattcaa atggtcataa 120

cttttcaatc ggaggaccga ttcaggcgca taatatatcg agacactcga aattgaacaa 180

cygaagctct cgagaatttc aaatgggtcat aacttttcac tcggagggtcc gattcaggcg 240

cataatatat cgagacgc 258

<210> 11980

<211> 242

<212> DNA

<213> Glycine max

<400> 11980
aatccctggg cttctttgcg accatatggg catgaggtcc atggccatca aaaacaccac 60
agaaaacggc ggccttggtt gaagagaaat tateccagag aagcatggca tcttggtga 120
tccctttgcg accttgctta cagaacaagg aagcaacctg ggacgaacag ttcaagaata 180
atctgccagg aactctgtgg agccgcattt ccatgttata atcagaggca gttctggaac 240
tg 242

<210> 11981
<211> 262
<212> DNA
<213> Glycine max

<400> 11981
agctttgagc caactcaaac gataataact ttttactcgg atgtctgatt gagtcccgta 60
acatctcgag acgctcgaaa ttgaatgttg aacctctgag ccaattcaaa cgacaataac 120
ttttttctcg gatgtctgat tgagtcctcg aacatattga gacgctcgaa attgaatgtt 180
gaacctctga gccaatcaaa acgacaataa ctttttactc ggatgtctga ttgagtcctg 240
taacatctcg agacgctcga aa 262

<210> 11982
<211> 262
<212> DNA
<213> Glycine max

<400> 11982
agcttgattt gaaaatgaaa ttcaacaata ataaaatata atacattgca gccaaaaaaa 60
taaaatccca gatttcataa ttaggggttca tgcataattg ggagaaaaga aacctttctt 120
ggagaatcat aattttcata acttatgctc taataccaca tgtaaatttt aaggatttct 180
tagattaaca attgtaggaa accaatagga tcttgaaacc tatgattctc acaacaatg 240
gataacaat gcgtattttt ct 262

<210> 11983
<211> 260
<212> DNA
<213> Glycine max

<400> 11983
 agctttaaca ttaattaaaa gctcattggt gcaggggcaa gcactttcgg taattttgat 60
 gcatgtgact gaacttgtec caatttatat gaaataaaat aaatgcattc tcagggtttg 120
 tttgctgaat gctacaggct ttgcaaaact tttttgctgc tttagtctat tctgcaaata 180
 ctagttttga ttctctgctg gagtcactac ttgectgtgc taagccttct ccacagtctg 240
 gtggcattgc taaacaagct 260

<210> 11984
 <211> 262
 <212> DNA
 <213> Glycine max

<400> 11984
 agcttttgcg gcaaacattt ataaaagacc ccttcagcag caaaaccaac aacagcggaa 60
 taattatgac ctttcaagca acagatataa tctagggttg agaaatcctc caaatctgag 120
 atgggcaagt cctccacaac aacaacaacc tgacctctct ttccagaagg ctgggtgttc 180
 aagcaagcca tatgttctct ctccaatata gcagcagcaa caacaacagt cacaacaaag 240
 acaacaagca actgaggctc ct 262

<210> 11985
 <211> 260
 <212> DNA
 <213> Glycine max

<400> 11985
 agctttatct tggttcagggtg cagggtgctgc tactgggtgga ggcacttgaa tttgggttgc 60
 agacctcaag gtgatggcac tcacattttt cagattttgc acagttttgt aaggcaattt 120
 gtcagaattt tgggactgag cttgattcat ctgagtagcc atctgtccca tctgatttgt 180
 cagactctaa atgaaggctc ttgtctcttg ctgaaattgc atattctgga tggtcatttg 240
 cctcactaac tcttctaagg 260

<210> 11986
 <211> 333
 <212> DNA
 <213> Glycine max

<400> 11986

actaggagag tctcttatat aacagtaaca gattcgttgg ttgaatctgt tgtggttgct 60

agagaggatg acaaggagaa actactgagc atgcttctat atgatgatga tgccatgtct 120

aatgatatag aagtgatcac agtattgggc atgggaggtt taggaaaaac aacccttggt 180

caatcccttt acaatgtaag tgaagtgcag aaacattttg atttgacagc ttgggcatgg 240

gtgtctgatg atcttgatat tctcaatgga acaaagaaaa ttgttgagtc tctcacattg 300

aacgagtgtc atttacttat cttggcggtt tcg 333

<210> 11987

<211> 433

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11987

taagtttctc tacacacgna acaagctaag tttcttggtt attaaatagc ataagtaagg 60

gaatccact tatgaaacat ttaccttgga ttagatcctt ggattttgaa gcttcatcac 120

cgttaagggt aaagactctt cctgtggcct tcgaacatcc agtttggtca ttcaggccca 180

caccattccg ctccttcttg ggatataggc aatctctctg aatatgcctt tcttgcttac 240

agttgaaaca agtcatgcct ttattagcac aatttgagga gatatgcctt ggcttaccac 300

atttgtaaca tgtgatctga gttgaggaag tagtgggtt gctaccacta acaccacca 360

tagcaacagt cctttgattg ttggggcgaa taccatattg cttagaggga gttgagtacg 420

gtttttccct atg 433

<210> 11988

<211> 373

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11988

tcatcanaat gaaatgaaac tacgtgttca ttatattttt tgaggctcgg caatcttaga 60

aaaatccttg atgaaacacc tgtcaaaccg gacatgtcct ataaagtctt tgatgcctct 120

gacattgggtt ggcagatgca atatttcaat gactgacacc ctggcttcat cgacattaat 180

gccatgaaca aagactttgc ggcctaatac aataccttta gttactataa agcggcaatc 240
 tttctaactg agctcaaata tttttgcaac acgctgcttc agtacagagt caagattaca 300
 aattcataaa tcacaagaag agccacacac acagacttca tccatgaaca ctctaatact 360
 cttctccacg aga 373

<210> 11989
 <211> 381
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11989

tctggctggt cttatataca tccacacaga aagtgtcagt acttcatgtc atgctctcta 60
 tttttcctat caattntctt ttgctctttc aatatatttt ttctaagcaa ttcagcttca 120
 acaatgtcat gagttagtgt gtgacttcat caatgtgcat gggacaggta cttgacgggt 180
 ttctatatt tcacgggcat taatttcggt ttgacatttg ttgctgctat tctctgtgtg 240
 tgttttgcac ccacaccagc aggacctgga attcctgaga tcaaagctta tcttaatggt 300
 gctgatactc ccaacatggt tgggtgccaca acattgattg tcaagggtaca ttaattattt 360
 gattgtatgc aacactgtct c 381

<210> 11990
 <211> 398
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11990

tatgctccta ccataagtgc ctctggaggt cattaatatt cttattngca ccgccatcga 60
 cccgtacctc atcggaaccc caaacagtac cccatctgcg gccgtcaact acggcattgt 120
 tatctctggt atggcgatcat ccttggggcga cgccctcacc tgatatatca cctcaatcgg 180
 caatgtctcc gagaccctat acagaacccc ttccacacct tccactctgt ccatgtcgat 240
 cttcaacctc ttgacatcc ccccatgccg tctgagagag acgaccacga cgaccacgct 300
 gctttacgtg ctggcaactgg cgtgttagggt cagcgggcag gcattgtctg gagggcacat 360
 cagaggcaac atggggggtg tgggtgacatc agtggggag 398

<210> 11991
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 11991

```

cccattggaag ctcttaatat ctcccacact ttttggtgtg ggccattctt ggaaggcctt   60
gattctctca ggggccactt ggaccccat tctaccaact acaaaaccta agaaaactat   120
attatctaca caaaagggtac atttctctat atttgcataa aggggtgttct tcttaaagac   180
tgaaagaact tgtctgagat gtcctaagtg aaaatctatg ctctactat acactaaaat   240
atcatcaaaa taaacaacta caaatctacc tatgaaatcc cttaagacat gatgcataag   300
cctcataaag gtgcttggtg cattagtga cccaaaaagc atcactagcc attcatacaa   360
accaacactg gtcttgaagc agtcttca ctca                                     395
  
```

<210> 11992
 <211> 468
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 11992

```

tcgtatgctc agctacagaa tgctcagct ccttatgatc ctgatggaat tcaagnngct   60
gatcaattga tagtctcaga gttcaagacc ttgtctgagc taaagcaatg ttacttcaaa   120
aaacaatntg atcctttacc agatagagca attcttgcag ctaaaattaa ggagctgcaa   180
agtgtcaaca aaacctttga gaatacaggg aagaagttag aatcgaggc agggctcaag   240
gactctgaga ttatatttct ccaagaaaag ctagaggaag ctaatgtgca caataagtca   300
attgagaaga gttaaatcaa agtggatcat tatcagttct tgataatctc catatgtcag   360
gactaagtc tagccatttt gtcaccgctc ttcgccacac agttagggtc attcggagct   420
ntgtgaaaaa tgttagtaat gaaatgagat ctgcttggtg ggatattg                                     468
  
```

<210> 11993
 <211> 464
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 11993

tctaatacaac tctaattcag tatcagcccg gcttactatc tcatgttaaa tgagagaaac 60

tgaccttcag atagcataga aattgcaatt cttcaggaat gaggaaaagc aaagcatttc 120

ctttcccacc ttcaccacga gctgttctac caacctgtg gatatatcc tggtagcagt 180

ataaaaaaaaa tgtgacatag tacatcaaag tataagactt ctaagaagca aatgaaaagg 240

gatattgatt gataaataga agaataaaaa gtacctttgg ttcacaggt ggatcatact 300

gcacaatcca gtctacagc acaataaagg agacaataaa cataaatctt atatatgtaa 360

tgaatttcaa ttaacagaac agaagtctga ataaacacgg ttcattcaag tgttgtaaaa 420

tgtntaccat tagtattagt atagaaaacc aaattaaaca taga 464

<210> 11994
 <211> 355
 <212> DNA
 <213> Glycine max

<400> 11994

tgaagctcct tctttctgtc ttattcccta gtggatggtg cctcccctat cctcttctcc 60

tttgctctcc gctgcacttc catggtgaaa aatcaccatt gaaggacctc attgaagctc 120

aaagatccag cctccataga agctccacaa gcaagcttcc atcacttttc acacagaggt 180

cagattcggg cacataatat gtccagatgc tcggaattga accacggaag ctctcgagta 240

atacaaatgg tcataacatt tcacacaaat gtccgattcg ggcgcataat atgtcgagtt 300

gctctaaatt gaacaacaga agctgtctat aaattcaatt ggtcataaat ttcca 355

<210> 11995
 <211> 394
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11995

ggtatatggt cttattcaaa acaggaccac tcttatttct tctctnccgt tggcataatg 60

ttcaattact gtcaaggctt ttggagcatc tataacttgt tcaactatat ttccagcgac 120

atttcggttg ataagctgca ccaaatctct ctttttctct tgtattcttt cagcacgaaa 180

gtatttttgg gttttcaatt gcttggaac tatagtttgt atctctcctt tgggatctt 240

cttcgggac tcattccagag aagccccctt ctcaagctct gctaacaatt gttttcttgc 300
 ttctctcaaat tccatctaat tcaattaagc agtgagtgcc aaaaagtatg gtttagagaaa 360
 atgaaatata gttntgacaa tctatgtcat taat 394

<210> 11996
 <211> 411
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 11996

tgtagaatca cttgtatcaa cagccatata tntttaattt ctattataag cctatctgct 60
 tcaaagaaaa aatcgactca tagtcagggg cgtttaacaa aatcttcttg gaaagggact 120
 cattttttga aattcaatct tgaaaggtgt tcagtacatg tatggngtga gacaggtttg 180
 gaaaatacaa ttgttcaga cccaagcga gtaattacg gctcacaggg gggtagagtt 240
 atgctaaatg tgcagcaga tggtagccca cgcaatgcaa atataatgtc cactattttcc 300
 gatgaatacc agaagctgaa gtactctgtc tctcttgaaa tatttcaata tagtttgtgt 360
 gtgaacaaag agaaacagtc cacacagatg gaacttgaaa gagcagatct g 411

<210> 11997
 <211> 449
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 11997

acaaatntac gtcgttttcc tctcataata ttagaggttt gtatttgatt tcaatattaa 60
 aatattattt ttacataaaa agtcatctat attttaaaag gtcagtgtaaa aattataata 120
 acctatatat atatatatat atgatttatt gtaaaagact tttataataa atatcttggt 180
 attttaaact taatagattt atatcataag gataagattt ttaaaaaatc tataaattta 240
 taagatttaa aaaaatcata tagaatttta acaaacattc aaaattcaaa tgataaaatt 300
 aaatatctgc tgtgttctat tataaacaac ctaaataatg aaatgccatt tttaatctgt 360
 tcatatctaa ttgtcagctt catcatcata ttcagtctat cctctgcta acatttacta 420
 aatctttccg actgtactcc aacattatg 449

<210> 11998
 <211> 398
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11998

aaacataagc acttagacaa tgtttgtag cnggagnngc tgcacatgat gtccaacgtt 60
 atgtcaaaga ataagatcgg gctgcacaat gcacaaggct agatgaaatg tcaaatgaag 120
 aattgaagct gcatgattca cgatgtctga tacaatgtcc aggacatcct gctcgaaaat 180
 actggaattg ctaaagcat tgaagctgca ggatccacga tgtcggatac aatgtccagg 240
 acattctgcc cgacaatact ggagttgctg tacaatgcaa gataaaagtc aagttgtgaa 300
 gctgcaggat ccacgatgtc ngatacgatg tcttgacttc cggcccgata atactggaca 360
 tataattctg tttattttta cagattattg gcagttgc 398

<210> 11999
 <211> 270
 <212> DNA
 <213> Glycine max

<400> 11999

ctatacgaga catcttgccg aacgaagtca agctatccat aacttgccctg tgctccttct 60
 tgcattgccat atgtaacgga gacgatgato ctgtcatgat cgacgacttg gaaaatgatg 120
 tcgtaactat actgtgccag ttggagatgt attttaccoc tgctttcttt gacatcatga 180
 ttcacttgat tgcgcatttg gtgagagaca tcacatgttg aggtcttgat catttgcgga 240
 ggatgtaccc gggtgagcga aacatgaaga 270

<210> 12000
 <211> 336
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12000

tactaagctt aagagatcat ccnctcgata acatcattgg tgatattcat ttngntaaca 60
 actagacatt ctctgaaaga cttatgcaat aatatggatt ttgtatctat gattgaacct 120

aaaaatatga aagaagccat tatagatgat aactggatca ttgccatgcg agaagaattg 180
 aaccatttg aaggaaacaa tgtgtggaat ttagtagaca aacctgataa ttatactgtc 240
 ataggaacaa aatgggttct tagaaataaa ttagatgaac atgggtgtaat tattagaaat 300
 aaagccaggt tagtagcacg aggggtataat cgagaa 336

<210> 12001
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 12001
 tcttagtctc acctgatgaa atgaatacgt ggttcacat gcactcctct aatgacaata 60
 gcactcctc tggcactaaa ttgctaagag ttggaagcca tcttctcaat taaattttctg 120
 gcttcagcaa aggtcatgtc tccaagggct ccaccactgg caacatctat catacttctc 180
 tccatgttac tgagtccttc ataaaaatat tggagaagaa gttgctctaa aatctgggtg 240
 tgagggcaac tggcacataa tatttttaaat ctctcctagt attcatataa gttctctcca 300
 ctgagttgcc tgatgcctga aatgtctttt ctgatggaag tggtcctaga tgcattggaag 360
 aatttctcca acaacactct cttaatgtca tcccagctgg agatggatct ga 412

<210> 12002
 <211> 461
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12002

atcttcttct tcaactacac aagaatcacc gggttgagtc ttctctgggg ctgtcttact 60
 ggtttagctc catcctctaa atttattcga tgcatacatg tggatgggct aataccagga 120
 atgtccgcca gggccagcc tatagccttc ttatgcttct tgagaactgg caacaacttc 180
 tctcttctgt catcagcaag ggaggcagat ataactactg gaaaactctt gctatcatcc 240
 aagtaagccg tattttaaatt ngatggcaga ggcttcaatt ttggtgtggt tggttggaca 300
 gtggtagaag gagatgggtt ctgagccttt acctcataaa gaaagtcaga ggtatgtgta 360
 cttccctgaa catgggttagt cctatctgac tctatnaaat caatcttgag aggtaanaca 420

ccaccaccag acattgcac aatatcactc tcagatcact c

461

<210> 12003
<211> 327
<212> DNA
<213> Glycine max

<400> 12003

cacatgaact aacatcacta ctttcatatt tggctatctc tttcttacac ttgaacatca 60
ttggaattcca atcgtttcat gactcaagaa gttttgacta ctcccaagtg tcattttttt 120
tgatgatatt aatttctctc tccatggctt gtctccactc ttgtgtttc atagcttttt 180
caaagggtgaa aaactccttg totacaaaaa gacaaaacac ctcatcctatg acttcagttt 240
catcatgtat gtcttgaacg cttcttcatt attcttagtc tttcacttga actcccttcg 300
gaagacgaac ttctgaatt gaatgac 327

<210> 12004
<211> 355
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 12004

aaagtgaat tgaagctttc tatgatgctt caatggatca aactcctcaa aacgtgtgat 60
aaaaccagca acaacaccta tgatatctc ttgagttcca tgtttgacaa gagcttcatt 120
ccacaggtcc ctccacctg tagaagaag gctggtttct agcgatgatt catttggtag 180
aatgaaact atgcgaccta gaatttcgtc tggtaaatta ctaaacagat cctttcccat 240
atggaatgaa tctgttgntt cagtatggc ttgtttggac taagaatata atgacatcta 300
tatatttgta actntataat tcatgtgaac tatgcangtc acaacaagga gatat 355

<210> 12005
<211> 206
<212> DNA
<213> Glycine max

<400> 12005

gatcgatcat gatgagcagc gtttgaagca agacttatag cagatttatt atcacaaaat 60
agcatcacag agggcacatc aacttcaaag tgaataagta acttgtttaa ccacacaatt 120

tcactagtaa cagaagacaa ggcataatat tcaacttcag tgcattgattt tgaacacagg 180
 gggtgtttct tataacgcc aaaaag 206

<210> 12006
 <211> 465
 <212> DNA
 <213> Glycine max
 <400> 12006

tgaagaaag catgaagatg agagcattgt ggtggtgatt tccctttatg acagcattca 60
 gttctgaggt tgcaccatga tgttttctt gcacctagat gtttgaatat gcctcataaa 120
 atgtatgtat gttgcatata agtaacaaaa tgctctgta aatgtatgta tgttgcattg 180
 aagtaacaaa tgtctcataa aatgtatcta tgttgcattat atgtaaaaaa atgcctcata 240
 aaatgtatgt atgttgcata taggtaacat atgcctcata aaataccttg ttaatttagg 300
 tagcaaaata ccttatctat ttatgtagca tacatacctt atcaaaattac gtgcaaaat 360
 acttgaatac acattgaaat gtagattttt acgtagcaaa aatactcgaa tatgcatgaa 420
 atataatttg ggtagcaaaa atacttgaat gtgcataaaa tatat 465

<210> 12007
 <211> 450
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12007

agcttcaaca ttcaatatcg agcgtntcga tatatttctg tactgaatca gacatccgag 60
 taaaaagtta ctgtagtttg aagttgctca cagctaaggc attcaagtc gagcgtctcg 120
 atatactgag agactcaatc agacatccga gtaaaaagtt attgtcgttt gaantgtctc 180
 agagcttcaa cattcaattt caagcgttcc gatattttac aggactcaat cggatagccg 240
 agcaaaaagt tattgtcatt tgaatttgct cagagcttcg gtattcaatt tcgagcgtct 300
 cgatatatta cgggactcaa tcagacatcc gagtcaaaag ttattgtcgt ttgaatatga 360
 acagaacttc ggtattccat tttagcaac tcgatatatt acaggactca atcagacatc 420
 cgagtaacaa gttattggtc gttgatttgc 450

<210> 12008
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12008

```
cttctggctt caattcatca gtgggctntc cttctgtgtc cagcatcttg ggatgttccc 60
agcctttgat gacagctttc caggttctgc tatccagtga ttgagaaaag gccaccatcc 120
trgctttcca gtattcatag ttggctccat ccagaattgg tggctctgtc actgggtccgc 180
cttctttctc catgttcate agaattatc tccctagatc tcaactcagtg atttcgagtg 240
cctgctctga taccaattga aattctgata ctggggacag atgtcgtaca ggatgtcacg 300
acatcacgct tcagaacatg cagattgtct ttgactgtat gaacagatta aacaagtaaa 360
taacacaaga gaattgttaa cccagttcgg tgcaacctca cctaca 406
```

<210> 12009
 <211> 460
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12009

```
agctntntcg cgcactaata ctgagctgta tgtttgtgtt aaggtatgtg gactccaaaa 60
ttgatatggt agataatgaa gctctaacca agtcttttgt attagaagaa tttaaatatg 120
cccttttcca aatgcacttg gataaggcgt ccggacctga cagattgagc ccgacctttt 180
ataaacgggt ttggaatgtt tgtggatttg agattttcta ggcttgtgtc tcttggctgc 240
atgaagggac tatgcctcct cacttgaatg atactaatat tgtcttaatt ccgaagaagg 300
agaatccagc atctatgaag gacctttgtc ctatatcttt gtgcaactgt gtgtacaaga 360
tcatgctaag agtggttagc aatacgttga agcccggtgt ggataatgta tctccgcaga 400
gcaatctgtg tttgtggaga acagatctat tattgataat 460
```

<210> 12010
 <211> 484
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 12010

agcttgtaca tggcaacatc aaatcctttt cttctttctc aacaccaaac agtatggctg 60
cgtgtctgac cttggcctgg caaccatatac aagctcactt gccttaccaa taccacgagc 120
agccgggtac cgtgcaccag aagttacaga caccagaaag gcagcacagc cctcagatgt 180
ttacagcttt ggtgtggtgt tgctagagct tctgactggg aaatcccta tccacacaac 240
tgctggcgat gagattatcc accttgtgag gtgggttcat tcagttgtgc gcgaggagtg 300
gacagctgaa gtgtttgact tatagtctgat gagatatact aacatagaag aagagatggg 360
ggaaatgtta cagatagcca tgtcatgtgt ggttaggatg cccgatcaga ggctaagat 420
gtctgaagta gtgaagatga tagataatgt ganggcagat gatgcagata ctactcatc 480
atct 484

<210> 12011
<211> 445
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12011

agcttaacca aagtctatac tgttttgttt gttatagctc tngactacta tccttgccct 60
attcctagtg atcaaacatt gttcattcaa tttattttta aacactcatt tagtgtaaatt 120
gatgttcatg tttttaaaat aagggtattaa ttcccatata tcattttctt taaattggnt 180
caactctca tgcattgaca tcatcaaaa cttacatttg agtgccctc ctatagacaa 240
tggttctact tgtgacacaa atgcagtatg ctcaaaaaa aagttcaaag agtgtctagt 300
agttactcct ttttctatgt cttgcatgat gtttgcata gaaatatcca ttggtgctct 360
ccattcttta agaagataat cgtgctgtga tgagagccat tcttgatgtt tattttctac 420
aaactcttca ctcttcgatg aactt 445

<210> 12012
<211> 477
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12012

agcttggttc ccaatgctnt gttcaagctc ttccaatacc tataggtaaa tctaggatct 60
 ctatcagata ctatgctaga tggcacacca tgtaacctga caacctcact tatatacaag 120
 gtggtaactt tctccaagga aaatctgata ttaatgggaa tgaagtgagc agacttagtc 180
 aatctgtcaa caataaccca gatagaatct aaacctctag gggttctagg tagccctacc 240
 acaaaatcca tggaaatact ttcccacttc cactgnggta tctctaaggg ttgtaacttc 300
 cctgaagatc tctaattgtc tatcttagcc ttctgacaga ctangcttgc atacacaaac 360
 tctaataccc ctctctttca tgtggggcac caaaacatcg tctttaaatc ctgataccat 420
 cttgggagc acagatggat gctcaaatta ctccaatgtc ctctctctaa gatcacc 477

<210> 12013
 <211> 314
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12013

ctcacaagct gctcanagaa gttcataagt tgtaaaagct atttggatgc aagtcaaaga 60
 cttgctttta tagactcttc atgtctagtc aagagaacca ttggaagagt tattatcttg 120
 agaaaatctt gagaaagcca ttggaagagt tacatctctt gatcttgtat tcataacttg 180
 ccgcttggta tcgattacca taaccatgta atcaattaca caatgcattg tatgacaaga 240
 tgtgactctt cacaattgaa ttggaatttc tacgttcaga tacactggta atcgattacc 300
 aatatattgt aatc 314

<210> 12014
 <211> 450
 <212> DNA
 <213> Glycine max

<400> 12014

ttcagcttca cccacctatt gagcacaatt aatcatggag aatcttctga agtcataacc 60
 aattaaccat tacttaaaaca tattaacata agaaataaat gagttaaaca aggatactgc 120
 tagaatatat gaaaaattat ccaaaaatat cttgatttta attttaaaat aattcagaat 180
 atctaggatt aggactacct gtttgggatt aacttcata ttttctaag ttatcatgatt 240

tgtaatcata cctagcagta gtttaaataa ggattttgta acacatatata cacatcatat 300
 caaatcaatt aaaaagtcaa atttccatgt ataaattttc ttttatttcc ctttctctcc 360
 tctatactta aaaccttata attccgactg atacacagat agagacatac ccattttgat 420
 gtcaaggaag ctgctgtgac attaaaaaat 450

<210> 12015
 <211> 458
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12015

tggagtttcc aagcgccaat tcgtcttctt ctntagtcca gtcttcttct ggettcaatt 60
 catcagtggg ctttctctt gtgtccagca tcttgggatg ttcccagcct ttgatgacag 120
 ctttccaggt tctgctatcc agtgatttga ggaaggccac cattcttgc ttccagtatt 180
 catagttggt tccatcaaga aatggtggtc tgttccactg tctctcttct ttctccatgt 240
 tcacagaat ttatctccct agatctcact ctgtgatttc gagtgtttgc tctgatacca 300
 attgaaattc tgataccacg ggacagatgt cgtaccggat gtcacgacat cacgcttcag 360
 aacatgcaga ttagatgcgt ccgtntgaac agattanaca agtaaataac acaagaagat 420
 tgttaacca gttcggtgca acctcaccta catctggg 458

<210> 12016
 <211> 387
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12016

agcttctagt gggacatctt gacttgcctt ccaatctgac attcaccaca gattctgcct 60
 tcttctattt tcagaatgng aatgcctcta acagcacctt tgacaatgat tntcttcatg 120
 cctcttaagt gcagatgtcc aaatcttga tgccatattc tgacttcatc ttctttggag 180
 gatagacatg tggaggagta gctggtttct tggggtgtcc ataggtaaca attgtccttt 240
 gatctgctgc ccttcattac aacttctcct ttctcatttg tcaccaagca ttctgacttt 300
 gtgaagttta cattgaatcc ttcacacac agctgactga tgetgatcta agttgcagtc 360

<210> 12017
 <211> 411
 <212> DNA
 <213> Glycine max

<400> 12017

ccgctactcc catacatata aaaacaactc ttgaatctgg cttctcatcc agccatagta 60
 atatcctatc atgatgggct tgatccacat tttggttatg ttgaccttc aaaataatca 120
 atggaccaac aycatacatt ggggggtgtg gaatttgacc atcacatatt gcattaatag 180
 catactgctc tcactctgaa aaagagatat caaagatccc tttggagtcc ttgtacctct 240
 gagcaatgtt ataattagta gcatatccac cttgtttgtt taaaacagca tcaggcacia 300
 cactataatg aactggatca gggagaccgg gttccaacca ctgatgatca gaatcatcga 360
 atgcatcacc aactctacgt ctctgaaggg ataacatgat attcaaaaac c 411

<210> 12018
 <211> 452
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12018

tacggaccta tgaatactaa gctttagggg agccacagag aatggtgaat cctaccattc 60
 ttgatatggt gaagaaagag gtgatgaagc tactagctgt agggatcatt tagcctatgt 120
 tagataaaac ttgggtttca cctatccaag tggtccttaa gaagtcaggc atcattgttg 180
 tggagactta ggataatgag ttgatcccg ctagaatgac caatagtgg caagtttgta 240
 ttaattatag gagactgaac caagcaactc gcaaggatca ctttcctctc tcattcgttg 300
 atcgggtttt ggagagggtg gtaggtaaat cacactatng atttcttgat ggttttatag 360
 gttacatgca gattcatatt gcattggagg actagcataa gaccacattc acttgtccat 420
 tcgacacatt tgcctacacc aagatgctta tg 452

<210> 12019
 <211> 499
 <212> DNA
 <213> Glycine max

ttaaagcacct	gagctgcagc	tgccctgccc	ttgatatat	gagggactta	tggtcactat	60
gaatgacaaa	ttccttgga	taaaggtagt	gttgccatgt	tttcaaagcc	cgtactaagg	120
catacaactc	cttatcataa	gttgaatagt	taagggtagg	accacttaac	ttttcactaa	180
aataagcaat	tggaatggct	tcttgcata	acacagcccc	aatcccaaca	tttgaagcat	240
cacactcaat	ttcaaaagat	ttttgaaagt	ttggcaacgc	aagtatgggg	acattagtta	300
gctttttgct	aagaacattg	aaagcttctt	cttgtttctc	tccccatttg	aaaccaacat	360
ttntcttgag	cacttcattg	agagggtctg	ccaatgtgct	aaaatccttc	acaaatcgtc	420
tataanaact	tgctaagcca	tgaaaactcc	tcacctcggt	cacagactta	ngtgtatgcc	480
attcttgaat	agccctaac					499

attcacgcgc	ataatatatc	cagacgctcg	aaattgaaca	acgaatgctc	togatataat	60
aaagtgggtc	taatttgaca	cacggaagtc	cgattcaggc	gcatactata	tgcacgactc	120
tctanattga	acaacgaag	ctcttgagaa	attcaaacgt	gccaaacctt	gtcacacggt	180
agtcggattc	acgcgcatat	tatttcgaga	ctctccatat	gatatacgga	agctctcgag	240
aaattcaaat	ggtcatatac	ttatcaca				268

tattatanna ctaattaaaa gactagaagc caacttatct ggtatgtcaa aaactataaa 60
anaaatgtac tgacaattga aataatatat acttgggtga cttaacatcc aatttgtaat 120

aatttgtttt aatgatctag caatacatatc ttggattaca acaaaaaaaaa atgtacacaa 180
acaatcaaaa tcaaaactaat ctaaatatgt aatcagtcgt cctgaataaa gcagacctgt 240
tatttttgtt taatggtttt ggtatatagg tatctgggag acacagatga agctgttaaa 300
tcaactgatca aggccgtgga tatactacgg attactcatg gcacagatac acctttcatg 360
aaggacctct tgatgaagtt ggaagaagcc cgtgccgaag cgtcttacag attgtcncta 420
aagagtatag aatgtcgaaa ta 442

<210> 12022
<211> 412
<212> DNA
<213> Glycine max
<23> unsure at all n locations
<400> 12022

agcttgtgtg gtagcaaaaa tacctagggtt ttttctctta gattcgagtg aagtctgacg 60
atattccgaa gactactttt aggaccggtt atggtcacta cgagtatcta gtcatgccct 120
ttggtgtgac taatgctcca ggtgtgttta tggactacat gaataaagtc ttccacctt 180
actttgatag ttgtgtggta gtattcatag atgaatat ttggtatattca aagactagag 240
aggaacatga agagcacttg aggattatgc tgcttaccct tangaatcga caacttttat 300
gctagtgtgc caagtgtgag ttttggttag agaaagtttag tttcttaggg catgtgatat 360
ctcaaggggg tatagtncta gacccctcta agatagaaag tgttcttgag tg 412

<210> 12023
<211> 403
<212> DNA
<213> Glycine max
<400> 12023

actagatgcc ttggttaacc tggtaatcca actgggtcatg aatcaaaaat ctacacctgt 60
cgccagactc cgtgggttat gctcctctgc tgaccacctc ataaaccttt gcccttctgt 120
gcagcaattg aacagcctga atcttatgct gcaaataact acaatagacc tcttcaacct 180
cagcagcaaa atcagccaca acagaacaat tatgacttct ccagcaacat gtacaatccc 240
tgggtggagga atcatcccaa ccttagatgg tcgaatcctt cacaacaaca acaacaacaa 300
caacaacctt attttcagaa tgttgctggc ccaagcaaac catatgttcc tccaccaatc 360

cagcagcaac aacaacaaca acaacaacag ccccagaaat agc

403

<210> 12024
<211> 386
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12024

ggcagcaagc ttgttaatcc atctttctcca agagctcctt gataaagaac tntatgtgaa 60
tcctgagatt taacacatca ataggaagga tgaaactcaa agaaacagtt attatcgga 120
gtgaatttac taacactaag taaattcttg gtaagggagg gaactagcag taaattttta 180
agggagagag tagtgtttgg aaaatagggg gacctaaaca gatttgagcc tatggaagag 240
attcttgtac ctgtgccatt agccattatg atatgttcac ttcttcgcagc ttgactgctc 300
tgaaggagaa tatgtggatc attggttgca tgggtgtgaag cacctgaatc tggaaaccaa 360
gcctgtgaaa tgttagcagt atgtgg 386

<210> 12025
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12025

agcttcatgc ttaagtatgc atggcaattc ttcattattg ttgntcaaga catacaagag 60
agcttgtaac aaatcttcta gacttgagat catcacatgc aatcctcttg aaccttacc 120
accacacctg tcatcatgcc gagactaacg aaggccatct agtatatcct tcttaatgta 180
ttctgaacaa aattcaatgg cttcttttgc aaagtaccto tcaacaatag atgcttcacg 240
acgatataca ttatttgtat accctgttaa gatctttatg tatcgctcaa ccgggtacat 300
ccatctgaga taaacaggac cacaccattt gatttctctg accaaatgct caatcaagt 360
aatcactgat gccagagaaa gcagggtgaa tatacatctc caactggcac aatat 415

<210> 12026
<211> 385
<212> DNA
<213> Glycine max

ccgagcatgc	tcgacgtatg	atatgcccca	catctgacat	ccgagcgata	ggttacgacc	60
atttgaatct	gtcgagagct	ttcgatgac	agctaccagc	gtcccgacat	attatgcgcc	120
cgagtcggac	atccgtgtga	atacttatga	ccctttgaat	gtctggagaa	catccgatgt	180
tcagtttcta	acgtctctat	atgtgatgcg	cccgaatcag	acatccgtgt	gataagttct	240
gaccatatga	atgtctcgag	agcttccgat	ggtaattac	gagcgtctat	atatattata	300
agcgtgaatc	cgacctgagt	gtgaaaagtt	atgaccattt	gagntctcgc	agagcttttcg	360
tcgttcattt	ctagcgtctc	tatat				385

<400> 12027

agcttatata	tatcgaggcg	ctcgtaactg	acttctgaag	ctctcgagaa	atacaaatgg	60
tctgtatctt	ctactaggat	gtccgattga	ggctcattac	atatacagac	gcgtcgatat	120
gaacaacgga	ctctcttgag	ataatcaaat	ggacatatac	ttacgcgctg	acgtccgata	180
catgcgcac	acattgtcac	accctctgaa	ttg			213

```
<223>      unsure at all n locations
<400>      12028
```

5076

<210> 12029
 <211> 463
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12029

```

agccttggtga tttcttcaag attatcttca ctatattgca tnttgctgct tcaatttggc 60
ctgcagattt cacaataaat acatttacta tgcttatttg gtaggtttaa attttcattt 120
ttttaaggga ggtataattt tttattaaaa gtcattgtat ttttttagaa ttntatttta 180
tgtgagggtca acttaagttt tttattttac acaaagttaa tttattttat tgccatatta 240
tccaattcat taatttgatt tagcaacaca ctgaatttct ataagtgtta atatttagca 300
acatattctc tagcacatct tttatatcac acattntatt atagattaaa attttattaa 360
nactacaaaa ttaaaagaaa aataactcat taaataagaa gtgagactaa nnaaaatgt 420
gattttaata aatttaatca tcttaaatat atattaaatg agt 463

```

<210> 12030
 <211> 471
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12030

```

agctntagct ctnntcttat tggataatgc tttttgagga agtctctntt caagtggatc 60
aaatcatttt taatgatgta tgtgttttct cttcttttagc ttaataatgt ccagtatttt 120
gactctaaat aaaagataga gctaattatt attattttatt gttagaggaa attaaatcat 180
ttttattggt agagcttaat aatgtccagt attagttttt gttatctctc tatatatgac 240
aacttttgat ctgactgttg ttaaatataa agattagatt aaattacaat attatatagc 300
tgctatattt attgaatcaa ccacttgata catgaaacat agttcttatg tcaggaaatca 360
agatctagaa aaaagaaaaa aaatgtacct aanaatatnt ctcattaact ntntttta 420
aaatatngta ttccttaacc acaaatcaat aactactcca tcatagattc t 471

```

<210> 12031
 <211> 413

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12031

 cgcacgtgat tcactctatt cttagtctga atatttgtaa gtttctgttc gaatatgggt 60
 ttacatgtct tcactctgca gtacgaatga tgtgagaaat ttgtaggaca ttttacttca 120
 atcatttttc ctttgactat cttctgaatg cagatcgcac ggaatgggtt ttgagagagg 180
 ttgggggtgat actgctgaac ggggtattgga aatgatgcat ctgctattgg atattcttca 240
 ggctcctgat ccttctacac tagagacttt tcttgggaga gtaccaatgc gtttcaatga 300
 tgctatatta tctctcatg gctactttgg acaagccaat gtcttgngtt cgctgacac 360
 tgggtgggcaa gtatctcctt tgatcatata cgataagact atttgagctg gat 413

<210> 12032
 <211> 276
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12032

 agcttctcga tatattatgc gcctgaatca tactctcgtt taaaagttat gaccatatga 60
 atttctccac tgtattccgn gtgacaagnt atgaccattt gaatttctcg atagcattcg 120
 ttgtcaattt cgagcgtctc gatatattat gtgccagaat ccgacttccg tgtgacaaga 180
 tatgaccatt ngaatttggt gagagcatcc tgtgctagaa ttcgagtatc tcgatatatt 240
 atgcgcctga atcggacatc cgtgtgacaa gttatg 276

<210> 12033
 <211> 375
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12033

 agcttgcttc tacactntca tgtntcacta ctctgtaaat atatccatga tccttctcac 60
 gtgggtcaaa tagacgacgt tcaagtaaag gagaacttga catatgaaac attgcctttg 120
 aggatcaagg atagatggaa aaaaacttaa gagggaaaaa gatttcgttg atcaaggttg 180

tctggggagg tgcagcanga gacgaagcaa catgggaact aaagagtcaa atgcgagaaa 240
 ccaatccagc cttgtttgag tcaagtaaat tttggggatg aaatttgtaa aaggggtggga 300
 gagttgtaac gccctgaaat ttcgataact gaaaatagat gccctgatgta tntattgtat 360
 tagttaatta cttaa 375

<210> 12034
 <211> 466
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12034

agctttagg ccttgatct tcttcacaa tgatcatc tgccttctga agatcatgga 60
 agtggatgg agaaggaaga aagatgattg gagacgccac ttcaaggaga agataagtgt 120
 agaagctcac caccatagga agccatagat aagagcttga aggttgcaga agatgaattg 180
 atggagagg agacaaggag catgaaattt tgtgcctcac aagaggtttg aactttgagg 240
 gttaattctc aaatgatcaa agttgaaaaa atgcacacac atgacctcta tttatagcgt 300
 aagtgtcaaa caaaattaga ggggaatttg aatttctatt caaatttcac ttgaatntga 360
 aatttgaatt gtggagccaa aatttcacta attatgatta gtgaattnta gctatggttc 420
 aaccactaa tccaagatca agtccaagat tctccactaa gtgtgc 466

<210> 12035
 <211> 355
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12035

agcttctgtt ttcaattacg agcgtctcga tattcttcgg ngctctatcc gacatccgag 60
 ttaaaagtta ttgtcgtttg atttttctaa gagcttcctt ttcaattac gagcgtctcg 120
 atatattacg ggacacaatc ggacaccggt gttaaaagt atggctcgttg gaatttgctc 180
 agagcttcta ttttcaatta cgagcgtctc gatattattac ggtactcaat cggacatccg 240
 agtaaaaagg ttttgcctgt tgaattctct cagagcttct gttttcaatc acgagcgttc 300
 tgatatatta cgggactcaa tcggacatcc gagtaaaagt ttggctcgttg aattt 355

<210> 12036
 <211> 343
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12036

```

tcacttaaaa acccnncccta gtagtctttg ttagatgagt atattagctg ggcaacttca   60
cttaaaaaaat ctaatatagt ataatagcct atatcacatc tttgtgaatc gtctattctg  120
gtacgcatca cctcttctgt caggcatttg tggagagggg ctgatgaaaa gtcccacatc  180
accaatggtc tcaatttttg gggtgcaact tatatatattg ttgggcaaca ttctacttaa  240
tgccaattgg ttttaggatg aaatctagca gnagatatgt ttatagtgat tcattgagta  300
atcatgccaa attgcatttt attatatctc atgttttctt cac                       343
  
```

<210> 12037
 <211> 347
 <212> DNA
 <213> Glycine max

<400> 12037

```

tccattttca attaccacgt ctcgatatat tacgggaccc aattggacat gcgagcacia   60
agttattgtc gtttgacttt tctcagagct tttattctga atttcgagcg tctcgatata  120
ctacgggaca caatcggaca tccgagtaaa aagttattgt cgtttgattt tgctcagagc  180
ttctgttctg aatttccagg gtgtcgatat accacttgcc accatcggac atccgagtaa  240
aaagttattg tcgtttgaat ttgctcagag cttttgtttt cacatttgag cgtctcgata  300
tataacgaga ctcaatcggg catccgagta aaaagttatt atcgttt                       347
  
```

<210> 12038
 <211> 378
 <212> DNA
 <213> Glycine max

<400> 12038

```

agcttgccct agttaagatt attaatttta ttcattaaat gacagtacat ttgtttcatg   60
ttttgctgtt ttacaaaaag agctaaaaact actctgttgc acttcgtcta catataacctc  120
aacattacta tgcttaataa aatttggtga tcttagtaaa acataaagca ctttctcaaa  180
  
```

tattaagatc aaataacatt cagcgtatcc aagagatgca gccaaaaataa ataatgagaa 240
 cattaaaaaa ctgaattacc tcaacttaaaa tgagaacccc tttcttggat gcttgacacg 300
 caacaaattc atagctgaca agattcattc catcccttaa agatgtaaca agtgctacat 360
 ctaaattcga tgtgagtc 378

<210> 12039
 <211> 312
 <212> DNA
 <213> Glycine max

<400> 12039
 ctttccattg cttaaatacaa agcatttgta accaaaaaca tgaacgtgtg aaattttggg 60
 tgtttctacca ttaaacagct catatggagt tttctttaa atgggtctta ttaaagccct 120
 tttcatgata tagcatgcag tgtaaacagc ttcagcccaa aagtattttg gaagaagagt 180
 gtcatttaat aaggctctag caatttttct cttacaacaa ctccattttg atgaggggtt 240
 ctaggcgcag aaaagttatg ttcaatgcc tgcctatcac agaataattc agaattctta 300
 ttttcaaatt ca 312

<210> 12040
 <211> 343
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12040

ttctatgaca tgcnnnnnttt ataggcgatt cataaaagac atttcaaaaa ttgccaaacc 60
 acttagcaat ttactaaaca aggatgttgt gttagcattt gatgaagact gtttggagc 120
 ttttaatat ctcaagacca ggctagtatc tgccctgtg attatagcac tagattggg 180
 gcaagagttc gaattgatat gtgatgttag tgactatgtt gtaggtgccg tacttgggca 240
 gagaaggggc agagttttcc atgccatcta ttatgccagc aaagtcttga atgatgcaca 300
 aatcaattat gctaccaccg agaaagaaat gttaggaatt gtc 343

<210> 12041
 <211> 330
 <212> DNA

<213> Glycine max

<400> 12041

acattccatc aactatcctg ttgatgttgg caagagggta tgcggctttg gggcatgccc 60
tattcagatc agtgtagtcg gtgcacatc gtcatttgcc attcatcttt ttgaccatga 120
caacattgac gagccaggta gaaaacctga catctatgat aaagtgtgca tgaaggagct 180
tttcgacttc ttctttgaag gctttacgtc gttcttctcc catcttcttt ttctttctgtg 240
atataagttt ggcttggggg aagatagcaa gtttgtggtg gattatgccg aggtggattc 300
ccgacatgtc aaatggctgc caagcaaata 330

<210> 12042

<211> 339

<212> DNA

<213> Glycine max

<400> 12042

cttctataga aaggaggtag taattttctt ttattgcctc atctctcaat gagctagtga 60
agaagaatgt ggcatttact tggggtgaaa gataagagca agcctttgct ttgctcaaag 120
aaaagcccac caaggaactt gttctagctc ttcccgactt ttctaaaact ttgaaatgt 180
gatgcctctg gagtgggagt tgcagttgta ttgttacaag gtgggcaagc tattgcttat 240
tttagtgcaa aacttcattg tgccaccctc aactacccca cctatgataa aaagctttat 300
gtcttaataa gatacctcaa aacttgggat cattacctt 339

<210> 12043

<211> 345

<212> DNA

<213> Glycine max

<400> 12043

taatactgat ggtacgcttt tggttatttc tgggacaagc aagatttggc ggaatcataa 60
gggagtgtct tgggaattgg cacacaagtt ttatgggac cgtgggcttt acaacttcag 120
ttcatgcaga gttactcgcc atctatcatg gtttgaagat agctagagac aaaggaattg 180
aaagattgat ctgcaaatca tattcgaaac ttgattagga cctaatact ggagaaatca 240
acttgtttca tcaatatttc cctaccatca tgctgatcca tttgttgaag cacatggatt 300

gggaggtgac ctttgagcac gtgtaccgtg aagggaacaa gtgtg

345

<210> 12044
<211> 345
<212> DNA
<213> Glycine max

<400> 12044

agctgactag tgaaggaagt tctatatatt ttctggcgcc aagatgggtca tatctgtttc 60
ctgtgagaca aagttatgag ctgacagata gcgctcaact tccgatgcgg tagcataatg 120
ggaaaattccc gcctggcctg gttgcatgcc tagctcagcg taatggctac catctcaagg 180
gtagtctcag aaagggatta ccttgtgcct atgcagtaca tgcgagcaag gacgcgctag 240
cgacgggtga gggatcattg gatatagcta ctatcagcat agcatactgt aagaaggatt 300
attttatatc gcaccatatg ataatttttt acagcagagt atagcatcta tccggggcta 360
ttttaattg tygaagggtg attgtgatat aactc 395

<210> 12045
<211> 329
<212> DNA
<213> Glycine max

<400> 12045

cacaatgagt actttggaat atggatatat ttgggtgcac caactcttgg agctgtggct 60
ggtaacttgag cctataattt cattaggtag acgaataagc cagcgcatga aatcaccaag 120
agtgcctctt tctcctaaagg tgggtgaagct gagtgattca acagcaaatg caagaatgtg 180
gttttttctt ctctattttc ttatcttcaa ttccaccatg cattaggggtt aaaatttaag 240
aaagaattac tggtttagtg tgctgaataa cctataata tagatagagg aaatgaaaaa 300
tacagtttct cctaattcat gcaacaatc 329

<210> 12046
<211> 342
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12046

tctatagaan gnnagtccta atttctcttc tattgcatca cctctcaatg agctgggtgaa 60

gaagaatgtg gcatttacct ggggtgaaaa acaagagcaa gcctttgctt tgctcaaaga 120
aaagcttact aaggcacctg ttctagctct tcttgacttt tctaaaaact ttgagctaga 180
atgtgatgcc tctggagtgg gagttggagc tgtattgtta caagggtggc accctattgc 240
ttattttagt gaaaaacttc atagtgccac cctcaactac cccacctatg ataaagagct 300
ttatgcctta ataagagccc tccaaacttg ggaacattac ct 342

<210> 12047
<211> 301
<212> DNA
<213> Glycine max

<400> 12047
gagacgctct aaattgatct ttggaagctc tcgagaaatt ccaatgggtca taagttttga 60
cgcggaggtc agattcaggc gcatagtata tcgagatgtt cgaaattgaa caatggaagc 120
tctcgagaaa ttcaaatggt cataactttt cactcggagg tccgattcaa ttgcataata 180
tategaaact ctcgaaattg aacaacggaa gctctcgaga aattcaaatg gtcataactt 240
ttaactcgga tgtcagattc aggcgcataa tatatcgaga tgctcgaaat tgaacaacgg 300
a 301

<210> 12048
<211> 370
<212> DNA
<213> Glycine max

<400> 12048
agctttccct cttttatcat ataccctca gccaaataga atccatcttg ggcctttttc 60
ccacaactct cataaatggg agagaaatgt tcactctaaag catacaagtc cctaataatta 120
tcaaatccta aaattcgagc tcttagggag caaaacaatg tgtgtctcct agagagggca 180
tcagctacca catttgtttt tccctttttg tatttgataa catatggaaa ttgctctagg 240
tactctacce attttgcatt cctcttggtt aacttgcttt gccctctaata gtacttaagt 300
gatcgatgat cactatgaat gacaaattcc ttggaacaa agtaatgttc ccaagtttgg 360
agggctctta 370

<210> 12049
 <211> 359
 <212> DNA
 <213> Glycine max

<400> 12049

agctttacac ttatgggggt tatgtttctt cggctattgg aagttgcatt ttcacctttg 60
 ccagagcatt tcttgctgtg atagctggat acaagacagc cactgttctc ctcaataaaa 120
 tgcattttgtg catttttcaa gcaccgatat cattatttga tgccacccca agtgggtcgaa 180
 tcttttatag agcatgtcat aatattgcat aatccttcat tggactaatt tgaagagaga 240
 actcctttac ctgatatatg gcttagcgca ttgtttttta gaagacgact tctctctttt 300
 tatttcttca tgaccataat gaatgtaatt ggtggctaaa acctagattt actttatct 359

<210> 12050
 <211> 378
 <212> DNA
 <213> Glycine max

<400> 12050

agcttgtaat cgattacaac ttgtgtgtta ttgattacca gacatgaaaa ttcaaatttc 60
 aaatctgaag agtcacaatt ctttagaac taactgtgta atcgattaca acaattatgt 120
 gatcgattac tagtaaggaa ttttcaaaaa taactcccaa tagtcacaac tattcaaaaa 180
 gtttttgaat ggttatcaaa ggcctataaa taggtgactt gggacatgaa attttttaag 240
 agagtttttc tgaacaaatt gtcttctcct ctcaatacaa aattgtctta taactctcaa 300
 aatattcctt ggccaaaata cttgcaaatt caacaaggaa tcttgattga tcttcaattg 360
 taatattcctt ctcttaag 378

<210> 12051
 <211> 306
 <212> DNA
 <213> Glycine max

<400> 12051

ttaggctcca agaggattgg gctagagcta ctgaagaagg ccctaggggt ctcatgaacc 60
 tgagggtaga tttctgagcc catgggccaa tggtaggtcc aattatgttt gtacatatta 120
 gactaggatg tcattatatt tggctcttgt atttaacact ccataatgta agtagggtag 180

cttaaaaata taggattttt caactctggt attttagggc acctagacta ggtattgtat 240
aaggggtaga ttagaatttc acatgcacta agtgaatatt tgatgtgagt gctgggaaat 300
aaaaat 306

<210> 12052
<211> 374
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12052

agcttcaaga aaaagatggt ctacgcaaatt tccttatttc cagaaggga ttctatcaat 60
agacctccaa tctttaatgg agaggggttac cactactgga aaacccgaat gcaaattttt 120
attgaggcaa tagatctaaa tatctgggaa gccatagaaa tagggcctta tatacccacc 180
acagtagaaa gagtttcaat agatggtagt tcatcaagt aaagcataac tatagaaaaa 240
cctatagata gatgggtctg agaggataga aaacgagtac aatacaactt aaaagccaaa 300
aacataataa catctgccct gngaattgat gaatatttca gggtttcaaa ttgtaagagt 360
gctaacgaaa tgtg 374

<210> 12053
<211> 346
<212> DNA
<213> Glycine max

<400> 12053

tctaaacttt gttcattatg aagctctgat atttcttggt agacaagtgg cctcagatat 60
cttaagaagg ggggggtgaa ttaagatatt cgaaactttt tcccctaatt aaaaatctat 120
cttacttttt acttaagtta tgaattccct taatgacaat cttcttaaatt attaattcaa 180
atgaagcaac ttgaatatga atataaagca ataataaata aaggagatta agggaagaga 240
aatgcaaac tcagttttat actgggttcg ccacaccctt gtgcctacgt ccagtcacca 300
agcaaccgcg ttgagagttc cactaacttg taaattcctt ttacaa 346

<210> 12054
<211> 331
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12054

agaggcattt gaggagctga ggaggaggct taccaccttt tccatcatgc aaccattaga 60
atgggagctt ccatgtgaat atatgtgaga agcctccaaa tatgcactcg gggaagtctt 120
cgacaagaga gttgatagac tatcacatgt cattgggtac gcctcaccac tctggatgca 180
aaccangtca actacaccac ccccgaaaaa gagattgtag ctattatttt tgcattagat 240
aaattcagat ctgtatttgt tcgctcctat attactattt gtactgacca tgcaggcttg 300
agatacttgt tgaagaaacc taatgctaaa c 331

<210> 12055

<211> 326

<212> DNA

<213> Glycine max

<400> 12055

tcaaccccat atgtgtattt tttagtgttg aggcgcatgt tatacttgcg aatctctctg 60
aacacctatt ccaagactgt gatgtgttgg gtcattgctat aagacttgac agccatgtca 120
tcaacataga cctcgatatt tcactctatt ttttgtttgg agaccgggtc catgagcctt 180
tggtacgtgg cccctgtgtt cttcaatcca aagggcataa ccatgtagca gaaattgatg 240
tcttcaatta tgaaggcaat ttttccctcg tcgggagggt gcactcctgat ctgggttatac 300
cctgagtagg catctaggaa acttaa 326

<210> 12056

<211> 339

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12056

tgtttaccn ataagaattt gctttctatt tagctgttca tagcaccact aattgttctc 60
cttttgaagt tgtttatggt ttttaaccac taactcctct tgatcttttg cctatgccta 120
atgtttctgt ttttaagcat aaagaaggtc aagcaaaggc ggactatgtg aagaagcttc 180
atgagagagt caaagatcaa attgagagga aaaataaaaag ctatgctaaa caagccaaca 240

aagggagaaa gaaggttgtc ttctaaccgc gagattgggt ttgggtgcac atgagaaaag 300
aaaggtttcc ggaacaaagg aaatcaaagc ttcaaccaa 339

<210> 12057
<211> 238
<212> DNA
<213> Glycine max

<400> 12057

agcttctaga tyagttttgt ttgtttttct gacatcctgc gaaaagtat aatcatttga 60
atttctccag cgtctccgtt gcttaataac gagcgtctag atattttatg tactcgaatg 120
gracatcggtt gcgaagcgtt atgacccttc gattttgtcg agagcttccg ccattcaatt 180
tccaacggcc aaatgaagta tgctctccaa ccaaacattt gagggaaatg atatgacc 238

<210> 12058
<211> 338
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12058

tgctnnnnag ggaagctcct tatatcttcc acactttttg ggggtgggcca ttcttggatg 60
gccttgattt tctcagggtc cacttggacc ccatttctac caactacaaa cctaagaaa 120
actatattat ctacacaaaa ggtacacttc tctatatttg tagagagggt gtttttctta 180
aggactgaaa gaacttgctt gagatgtcct tagtgatcat ctaggctcct actatacact 240
aaaatatcat caaaataaac aactacaaat ctacctatga aatcccttaa gacatgatgc 300
ataagcctca taaaggtggt ttggtgcatta gtgagccc 338

<210> 12059
<211> 348
<212> DNA
<213> Glycine max

<400> 12059

tattatcggc gacaacggga gtttttcttt gattcaattc aatgctttct ttattcttct 60
ctaattgtta aatattatta ctagctgttg ttgagaatag ggattagtgt ttaatttctg 120
attatatatg gcattattgg ttctgttgct ctctgggtta ttttatttgt gacccaaaat 180

cattgtaggt gtggggaaga gttgtctact tttagaggtt tctgatggct cattcacaac 240
aagttttatc accaccattg ggtagtagata ttatgtgtag acaccttttt ttatcgctt 300
gtgaaaaatg ctgcagctgt ttcttgtctt gtttcaagat tcttacat 348

<210> 12060
<211> 340
<212> DNA
<213> Glycine max

<400> 12060
tagacctcac gccagctgtc cctccgttct cagcgtcacc ataaactcat gaagcgatc 60
ttcgcccat ttccattct ggaacgcatt ggcagcgttg cttaccgttt gcaactacct 120
gaagggtctc gtatccaccc cgtcttccat tgttccttac tacgccctca tcacagacct 180
cttgacctcc caacctcttc ccttccggcg gatacttctt ccccacaccc tatacttgag 240
ccactagcca tcttgactc tcgaatggac ttctctgttg acccccacac tegtctctg 300
cttgttcaat ggggttgtct tcttccggaa gactccacgt 340

<210> 12061
<211> 322
<212> DNA
<213> Glycine max

<400> 12061
gagggtgttt catatgttct caagactgga ctaatacatt tgctgcgcaa gtttcatggt 60
cttcgaggtg aagatcctct taagcatctt aaggagttcc atattgtttg ttccaccatg 120
aagccccctg atgtccagga agatcatatc ttcttaaagg cttttctctca ttctctggag 180
ggagtggtcaa aagattggct atactacctt gctcccaggt ccatttttag ctgggatgac 240
cttaagaggg tgttcttggg gaaattcttc cctgcactca ggaccactgc catcagaaaa 300
gacatttcaa gcacagga ac 322

<210> 12062
<211> 348
<212> DNA
<213> Glycine max

<400> 12062

tcggacaact aatTTTtacga acataaaactt atatgaatta attattattt ctatactaac 60
aagacacata tattttttta gtaattttatc acttaacaat tttataattt agtgaactta 120
acttgaaata attagggggaa gagtgatata ttaaaaaaaa tttccataaa acccgtcagt 180
aagtaaaaaat atgctaaaaat atctcatatt aattggtaga tataatcaat gacttgagta 240
aattacaata taaagcgtga ataatcgaaa tgttaactcc aaggatcatt acaatataaa 300
ttatgaatta tatgtcaaca ctttaaaaaac ttaattttat tattaataa 348

<210> 12063
<211> 360
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 12063

acactataga aactcagctt gcctctgtnt tggctaggca ggtatcacia aagaaaagga 60
agatgggaga agaacgactc aaagctttca gagaagaagt agaaaaactc cttaaatgcta 120
acttcatcag aaaagttaga tactccacat ggctcgccaa tgacaaatgg cgaatgtgca 180
caaactatac tgatctgaat aggggtgtgcc ccaaagatgc aatcctctgc ccaacattga 240
catgctagcc gatggagcgt ctgggctcta ggtgctaagc ttcttagaca cttgttctgg 300
atacaactag attagaatgc acgctagaga cgaggagaaa atgagattca tcaactgaaga 360

<210> 12064
<211> 344
<212> DNA
<213> Glycine max
<400> 12064

tggaacatat tttcgaattt taggccccct tattgattta gtcaaaatat ctgctggctg 60
atcattggaa ttaatgaatt cagtgacaat ctcttttagac agtagcttct cccgaataaa 120
gtgacagta atctctatgt gcttggttct ctcatggaag actggatttg aagcaatatg 180
aagagcagcc tgattatcac aatacaactt catttgcac actttgcaga atttcaactc 240
ttcaagaatt tgtttgacct acataagttc acatgtagct acatccatag atctatatctc 300
aacctctgca ctagatctag caacaacagt ttgcttctta cttt 344

<210> 12065
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 12065

agctttttatc atgcaactta cccatgtaaa actccaattc ttattaaaaa gcaacataaa 60
 aaacatataa agaattacat ctaagtttta tctttatcat tattagtagc acaaaactta 120
 gatgcagttt cataaatatt ttgtgtggtt ctttgatcaa aattagagct ttaccctaatt 180
 aacttgtaac ttataatgac ttttaatgta aatcttttatt acaaggaagt gaaactcaaa 240
 ctactattgg agaacaacaa gttaatcatg atgatgtaaa aatttgtagt tgtatgatta 300
 tttttttgat attgatatga atgattttatc agttttatta ataactaata tttataagaa 360
 aacttaactg atttaccttt a 381

<210> 12066
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 12066

agcttgtgac ttgcataaac ttctttttcag tggatgacaa tagaagctaa aagttaccaa 60
 gcatacatca aactgtttca aaaagtccaa ctatcatttt attcttaata aatgggagtt 120
 accagtataa aataaactat ggctgcaaaa ttgtacttca aaaaaatata aaatataacc 180
 tgatcaaaga catcaatata gacttggttc agagaatgag aactgcagaa ctgattaatc 240
 tcatgatgaa tcttgtcata tatccatgtc ttatcataat gtacaccata gttgagcaat 300
 gtctcaaaga caaattcctt atggagttga ttcacaacct aaaagaagaa tatgcatcac 360
 tgctatgaaa ttattgaaga tgtga 385

<210> 12067
 <211> 338
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12067

tggnnnnnntt gtgttactct tctcttgat caagaaatc atattattta ttattctttt 60

tctctctac caattgcac aaaagaattt ttctggtttt tttcttcaat ccttgagcaa 120
catattaata ccaagagaga ccatttatat gtgtgatttt aagagaaaga attgtctact 180
cttataataag aattatgccc aatttgaaat ttattttattg atctatcttt atatattatt 240
tttattacct gtaattataa tcatctttta ccaattnaat atattattat actaacattt 300
ttttcaaat aaaaattaca atctattata ttaaaata 338

<210> 12068
<211> 341
<212> DNA
<213> Glycine max

<400> 12068
tggccaaagg gttttggtcc tgtatatata gtaagtatgc aacatattgc cttgtaaatt 60
gtaattaata cagtaattaa taatatatga catagcttat cttttccatt taactatgtg 120
aatgtgattt ttctgaaggg cacattacca gatggacaag atattgcagt caaaaggctt 180
tcacaaacat ctacacaagg attaacagaa tttaagaatg aagttatatt ttgttctaaa 240
cttcaacatc gaaatcttgt taaagtctct ggttggtgca tcaatgagca ggagaaatta 300
ctcatctatg agtacatgcc gaacaaaagc ctgacttct t 341

<210> 12069
<211> 367
<212> DNA
<213> Glycine max

<400> 12069
agcttgtaac atgggatgct tatcattttt actaatctta tatatttcaa atgaaatagt 60
gatcatcaag acaaagggaa aaattattga gagcgaagaa aaagatctag agctaccttt 120
gtttgatatt gagacaatag catttgctac tagtgacttc tcaagtgaca acatgcttgg 180
gcaaggtggt ttggccctg tatacaaagt acgtatgcaa ctgatttctt tgcaattaaa 240
agctaagaac aaacaaagaa catagcctga ctttttctgt ttgtcattta cttcttttgt 300
aaatgtgaat ttttaagggc acgttaccag actgacataa tattgcagtc aaaggctttt 360
atatcat 367

<210> 12070
 <211> 264
 <212> DNA
 <213> Glycine max

<400> 12070

tgtaggccta ggatcttctt catctatgga ttcctttgct tcttggaaga tgaatggcag 60
 cggaatggag aaggaagaga gagaggagac gccacttcaa ggagaagatg agtttagaaa 120
 aagctcacca ccataggagg tcatggataa gagcctggag gaagaagatg aatgaaggga 180
 gagggagaga agagcaggaa attttgtgct ctaaaagagc tctaaatct gaagttaaat 240
 attcaaatga tcaaagttga aaaa 264

<210> 12071
 <211> 266
 <212> DNA
 <213> Glycine max

<400> 12071

tctgaaagct ggaatcattt atcctatctc cgacagccaa tgggtgagtc cegtccaggt 60
 agtcccgaag aacaccggcc tcacagttgt aaaaaatgag aaggaggagc tgattctac 120
 tcgggtgcac aacagttgga gagtctgcat tgactatagg aagttgaacc aggttaccaa 180
 aaaggacat tttccctac ctttcattga ccagatgctt gaacgtctgg ccggtaaatc 240
 acactactgg tttcttgatg gctttt 266

<210> 12072
 <211> 255
 <212> DNA
 <213> Glycine max

<400> 12072

catcatagga gctgtgcacg tcaaacagag ggggattcca actcttatag gtgactttga 60
 gcagctgttt atggaggagt ccgagtcaat tgctgattat ttttctccag tattggccgt 120
 actcaatcaa cttaaaataa atggatgaaga tggtgatgag gtgaccgtca tggaccatat 180
 acttctaact ttaaatcccc gtattgactt cttgttgcc agcattgaac actactygga 240
 ttttgagacc atgac 255

<210> 12073
 <211> 266
 <212> DNA
 <213> Glycine max

<400> 12073

ttgagcaaat tcaaacgaca ataacttttt actccgatgt ccgattgtgt cccttagtat 60
 atcgagactc tcgtaattga aaacagaagc tcgtagcaaa ttcaaacgac aataactttt 120
 tactcagatg tccgattatg tcccgtagtt tatccatacc ctcgtaattg aaaacagaag 180
 ctcgtagtaa attcaaacga caacaacttt taactcagat gtccgattga gtgctctaatt 240
 atatcgagac gtcgaaatt gaaaaat 266

<210> 12074
 <211> 268
 <212> DNA
 <213> Glycine max

<400> 12074

agcttcacga tatactacgg gacacaatcg gacatccgag taaaaagtta ttgtcatttt 60
 aattttctta gagcttccgt tttaactacg agcggctcga tatattacgg gactgaatca 120
 gacatccgag gaaaacgttt ttgtcgtagt aatttgcga gagcttttgt tttcaatatc 180
 aagcgtctcg ttatattacg ggacttaatt gtacatctga gttaaaattt aatgggggtt 240
 gaatttgcta cgaccttctc tttgcaat 268

<210> 12075
 <211> 265
 <212> DNA
 <213> Glycine max

<400> 12075

agcttaaaaca ttcttttttcg agcgtctcga tatattacga gtctcaatca gacatccgag 60
 taaaaagtta tggtcgtttg aattggctca gagcttcaac attcaatttc gagcgtctcg 120
 atatatttcg ggactcaatc agacatccga gtaaaaagtt gttgtcgttt gaattcactc 180
 agagggttcaa cattcaattt tgagcgtctc gatatatgac gggacttaat cagacatccg 240
 agtaaaaagt tattgccggtt tgaat 265

<210> 12076
 <211> 259
 <212> DNA
 <213> Glycine max

<400> 12076

agctttgcat atcctttgat aaaccttcga tagtgaccag tgaggcctaa gaaacctctt 60
 agctgcttga tattgagtgg ttagggccac tctagaactg catgcgcctt agtagcatcc 120
 atagcaactc cttcacctga aactatatgt cccaagtact ctatctccaa tacacaaaaa 180
 gagcatttat acaacttagc aaacaaaaca tttctttcaa tactttgaat acaaccttta 240
 tatggcataa gtgttcacg 259

<210> 12077
 <211> 259
 <212> DNA
 <213> Glycine max

<400> 12077

agcttgaacc ctctgtttag agcaaacaaa ccgaaacaca ttcaccacga tggcgaccaa 60
 agcgatggag gtggtgaagg gtctggacgt gaaacggtag atgggtcggg ggtacgagat 120
 tgcgtgtttc ccgtcgaggt ttcagcccag tgacggcgctc aacaccagag ccacctacgc 180
 tctcagagat gacggcaccg tcaacgttct caatgagact tggagtggcg gcaaaagaag 240
 ctteattgag ggcactgct 259

<210> 12078
 <211> 266
 <212> DNA
 <213> Glycine max

<400> 12078

agcttggact tcctgtgttt tgggaacctc tccttctca ggtgtacca aacccaatca 60
 cctgggttcaa gcacgacttt cttctctgctt ttgttggctt gccttgcata gctcgcattt 120
 ttcttttcaa tttgaacctt cacttgctca tgcaacttct tcacatactc agcttttagcc 180
 tgtgcactct tatgcttaaa catagcaatg ttaggcatag gcaacaaatc aagaggagtc 240
 aaaggattaa atccatacac tatctc 266

<210> 12079
 <211> 263
 <212> DNA
 <213> Glycine max

<400> 12079

agcttggtga cctttcacac tatatccact caaattccca taagctggaa agtcattaat 60
 ggtgcaaaat atcatcgcat gcaacctaaa agtctcacc tgatttgcac catcacacac 120
 aaccccgctc acctaaaact tacgcatgtc ttcaatcaaa ggagtaaggt acatatcaat 180
 atcgtttctt ggctgtcttg gacgtgatat catcatagac aacataatgt atttgcgctt 240
 catgcataac gaaggaggaa ggt 263

<210> 12080
 <211> 268
 <212> DNA
 <213> Glycine max

<400> 12080

tcttcacata gtccgccttt gcttgactct tctttatgct taaaaacaga aacattaggc 60
 ataggcaaaa gatcaagagg agtttagtggg ttaaaacat aaacaacttc aaaaggagaa 120
 caattagtgg tgctatgaac agctctattg taagcaaatt caacatgggg taaacaagct 180
 tccaagttt ttaagttctt cctcaaaact gtctaagca aagttcccaa agtcttatta 240
 acaacttcog ttgcccacg ggtttgtg 268

<210> 12081
 <211> 260
 <212> DNA
 <213> Glycine max

<400> 12081

agctttatga gagagtttag atcaaatga gaggaaaaat aaaagctatg ctaacaagc 60
 caacaaaggg agaaagaagg ttgtcttcga acccgagat tgggtttggg tgcacatgag 120
 aaaagaaagg ttttccggaa caaaggaaat caaagcttca accaagggga gatggaccat 180
 ttcaagtgtc tgaagaatc aatgacaatg ttacaaagt tgagctgcc ggtgagtata 240
 atgttagttc cacttcaat 260

<210> 12082
 <211> 265
 <212> DNA
 <213> Glycine max

<400> 12082

tttgcaagag ttatgactac tataggaggc atgtctctct cttttcattt ctttcattat 60
 tttttctctt tcttctctct ttattttctt tctttcatct tgacttattt cttccactat 120
 tttttccctt tttcttttct ctggtgtttt tctttccata acttgaggga actcaactca 180
 tctaagattc tagataaagg gtctttatga ctagtaccct tgccattaac actagatgaa 240
 tgatgactca tgttggttcc taagt 265

<210> 12083
 <211> 262
 <212> DNA
 <213> Glycine max

<400> 12083

ttgagccaat taagacgaca atatcttttt actcggatga ctgattgagt cccgtcatat 60
 atcgagacgc tcgaaattga atgttgatgc tctgagcaaa ttcaaacgac aataatattt 120
 tactcggatg tttgattgag tcccgaata tatcgagacg ctcgaaattg aatgttgatg 180
 ctctgagcaa attcaaacga caataacttt ttactcggat gtctgattca gtcccgtcac 240
 atattgagat gtcgaaatt ga 262

<210> 12084
 <211> 263
 <212> DNA
 <213> Glycine max

<400> 12084

agcttagtaa agcttggcac taacaatctc cccctttggc aaattttgtc taaaacatac 60
 tttagacactt cctgagcagg tacgagcagt tatgcaagtg ggatcagcaa ctttcattat 120
 cagagtaatc aagcacagcg gaaattctgc aagttgcaag tcgtttccag gatgtcaaga 180
 catctcacat gacatcagct ttctgcttct gctccccctg tctccatgct cttactgcag 240
 catcttctat cagctactag tct 263

<210> 12085
 <211> 264
 <212> DNA
 <213> Glycine max

<400> 12085

tgaatcggac atccgtgtga aaagttgtga ccatttgaat ttctcaagag cttcgggtgt 60
 tcaatttcta gactctcgac atattatgcg cccgaatcgg acatccgtgt aaaaagtat 120
 gaccatttga atttctcgag agttttcgat gtttaatttt gagcgtctcg atatagtata 180
 agcttgaatc ggacctcagt gtgaaaagtt ttgaccattt aaatttcacg agagcttccg 240
 ttgttcaatt ccgagcctct cgac 264

<210> 12086
 <211> 259
 <212> DNA
 <213> Glycine max

<400> 12086

agcttcttct tctttgccac aatgcgctgc ttctcagcga gaagagccat tctcttagcg 60
 gtcttgcat agggattgag cttcaacatc gcattgaggt tggtagagag gttcttcttg 120
 agaggagctc tcttaacatc tttcttaatg ggctgacca cggactggac ctcatcggag 180
 ttaatgatgc gggccaagtc cgagttaacc attctgggcc taggaagcag gtaccccttt 240
 ttcttctcag aagccttat 259

<210> 12087
 <211> 260
 <212> DNA
 <213> Glycine max

<400> 12087

agctttgcaa cagatgccac tctactcaa gtttttgaaa gatatgtgga caaggaagca 60
 caaatacggt caccaggaga atattgttgt ggaaggcaac tgtagtgcta tgatacagaa 120
 gatccttcca ccaaacaca aggacactag aagtgtgact ttctcttggt caataggtga 180
 agtcacggtg ggaagactc tcattgactt gggagccagt atcaacttaa tgccactctc 240
 catgtgtaga aggttgggag 260

<210> 12088
 <211> 497
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12088

tctagcttac aaagctcatt ggatactgga acagctaaag gcttaaccaa aggaaaaata 60
 ttcattctac cttcaacggt ggggtgggagc ccacgttata tggatcaact ttactttgat 120
 ggtatgacaa tatgcagnta tgttggtttc ccaaactctt ttattactct aaccttgaat 180
 ccaaattggc ttgaaattgg tagattactt ttacctttga atctcaaatc aacagacaga 240
 ccagacattg tatcacgaat ttccagattg aaatatgaac aaatgctctc agacttaaca 300
 aagggtcaat tactgggaaa agtgggttga tgtaagttga ctataatttt tattcttaaa 360
 cacaatatata agttgatcat ttggccactt ttctttatct tataatgcag atattaatnt 420
 cgaanatatt acaattngac tgatactttt tacagatatg aaatacaaaa tatacttacc 480
 atcgtaacat tatcatt 497

<210> 12089
 <211> 348
 <212> DNA
 <213> Glycine max

<400> 12089

gagcttagtc ataaagccct tttctaataa ttgacctaaag gtgagtagat tacttttcat 60
 acctggaaca aagagtacat cagtgatgca agactgacct ccactctttg ttttgataag 120
 gaccttccca attccttcag cagtcaagat tctatcatca gcaaatttga cttggctctt 180
 cacagattga tcaaggatga aaaaccactc tcttattcct gtcatatgaa tggagcaacc 240
 tgtgtctatg gaccaacaat tatcacttgc ccattgtaatt tgagttagtta ccattagcac 300
 tacctattaa gtgacatcat cttcttctctg agccaatttt gcatcacc 348

<210> 12090
 <211> 341
 <212> DNA
 <213> Glycine max

<400> 12090

agcttattga aagcatgcct tttgaagctg atgacgtaat ttggagaact ttgctcacta 60
attgcaagat gcaagggaat gtagaagttg cagaaaaggc attcaattct ttattgcagg 120
tggaccctaa atattcttct gcttacgttc ctttagcaaa cgtatatgct atcagaggga 180
tgtgggggtga ggtcacaaaa ataacaagtt taatgaagaa ctgtaagtta aataaggagc 240
caggttggtat ctggattgag gtcacacatg aagtacactc attttttgtt ggagacaacg 300
cacatccaaa atctgaagag atttatgagc aaactcattt g 341

<210> 12091
<211> 367
<212> DNA
<213> Glycine max

<400> 12091
tctgggtgga catcttgact tgcctatcaa tctgacattc accactgatt ctgccttctc 60
ctatcttcag agtgggaatg cctctaacag cacttttgtc acggattatc ttcattgcctc 120
ttaagagcag atgtccaaac ctttgatgcc atattctgac ttcattcttct ttggaggata 180
gacatgtgga ggagtagctg cgttcttggg gtgtccataa gtaacaattg tcctttgatc 240
tgctgccttc cattagaact tcactcttct catttgtcac caagcattct gactttgtga 300
aagtgcatt gaatccttca tcacacaact gactgatgct gatcaagttt gcagtcagtc 360
ccttcac 367

<210> 12092
<211> 354
<212> DNA
<213> Glycine max

<400> 12092
agctttcatt tattttaatt tatgttacca ttttaagaga aaataaatta ccataagaat 60
ttgcattaat gttattcacg tttaaaaata gtaatgtagc tacatttggg cattaagtat 120
aataattgta aattgattat gattacataa tagatgaata tttcaatcaa atcaatttat 180
tttgaaaatc ttacatgcaa ttttttttat ttcaaaacaa attattttat aaaattccag 240
aaagccatgt gacaatgtgc tttctttaa aatattttcg tatgcatata gtagagta 300
tagattgaca gctctatcct tattggcttc ttctttata tatttataac ttat 354

<210> 12093
 <211> 349
 <212> DNA
 <213> Glycine max

<400> 12093

agcttataga atatataatt agagaacaat gacaattgaa gaatcgattc atgtttcctt 60
 tgatgagtct aatgctattt ctccaagaaa ggatatttta gataatattg cagaatcttc 120
 agaacaaatg catattcatg gagaagattc taaaggaaaa ggagaaggaa gcaatgaaga 180
 tctccagtg gaagtcaaag caaataatga tattccaaga gagtggaaac cttcaagaga 240
 tcatccctt gacaacatta ttggtgatat ctcaaaagg gtaacaacta gacactctct 300
 caaagattta tgtaataaca tggcttttgt atctatgatt gaacctaaa 349

<210> 12094
 <211> 346
 <212> DNA
 <213> Glycine max

<400> 12094

agcttcaaca ttcaatttct tgcgtctcga tatatgacgg gactcaacca gacatccgag 60
 taaaaagtta atttcgtttg aattggctca cagcttcaac attcaatttt gagggctctg 120
 atatattgcg ggactcaatc agacatccga gtaaaacggt attgtcgttt gaattggctc 180
 agagcttcaa cattcaattt cgagcgtccc gatatatgat gggactcaat cagacatccg 240
 agtaaaatgt tattgtcgtt tgaattggct cagagcttta acattcaatt tcgagggtct 300
 cgatatatta cgggactcaa tcagacatcc gagcaaaaac ttattg 346

<210> 12095
 <211> 345
 <212> DNA
 <213> Glycine max

<400> 12095

ttctagattg caatcctctt ctggttcggt atgaagtggc atctaattgc aatatgttta 60
 gttctctcat catggactta atccttggct agacaaattg cactcgaaaa atgatagctt 120
 tatcttttgg aaacttttag ttgctattaa gacttttttag ccaaattgcct tcttttgcta 180

cttctaccag agccatgtat ttttctctta tagtggacaa ggcaactgta ggtggaagtg 240
tagccttcca attgacaaga gaattaccaa ttataaatgc atacctgtc acaaatcatc 300
ttgcatctag atttgtagcg tagttagaat cttaatattc aaaaa 345

<210> 12096
<211> 314
<212> DNA
<213> Glycine max

<400> 12096
ttccctcttt gaacaaatac ccctccgcca attagaatcc atcttgggct tttttccac 60
aactttcata aatgagagag aaatgttcat cttaaagctta caagtcctta atattatcaa 120
atcctaaaaa ttgagctcct agggagcaaa accatgtgtg tctcatagag agggcatcaa 180
ctaccacatt tgtttttccc tttttgtatt tgataacata tggaaaatttc tctaggtact 240
ctaccatttt ttcattgcctt ttgtttaact tgctttgccc tctaattgtac ttaagtgaat 300
gatgatcact atga 314

<210> 12097
<211> 350
<212> DNA
<213> Glycine max

<400> 12097
gcaagcttgt gtcacgattc actgtgacag tcaaagagtc attcacttag aaaatcacca 60
aatgtaccat gagaggacag agcacataga tgtgaaacta cacttcatca tagatgtgat 120
tgaatctgag aaggtgaatg tggagaaggg ttcaacaaaa gaaaacctgg ctgatatgtt 180
cacaaagtcc ctctctagtg tcaagttcaa gcaactgectg tacttgatca atttggaaga 240
tgcttaaagc agattggtag aagtgcagcc ctgaatcaca aggtaaacac ttgctgattt 300
ggagtcaagg tggagatttg tgggtgtgtga ctaaaacata cattggcaca 350

<210> 12098
<211> 345
<212> DNA
<213> Glycine max

<400> 12098

agcttgtagg gttaaagtct tacgattgtc acgtgctcat gcaacaattg ttagccgtgg 60
 ctatacgaga catcttgcca aacaaagtca ggtaacgat aactcgcttg tgctttttct 120
 tccatgctat atgtaacaaa gtcattgac cagtcattgt tgatgagttg gaaaatgagg 180
 ctgtaattat actgtgctag ttggagatgt attttcccc tgctttcttt gacatcataa 240
 ttcacttgat tgtgcactcg gtcagagaaa tcaaatgttg tggctctgtt tatctacgat 300
 ggatgtaccc ggctgagcga tacatgaaga tcttaaaagg gtata 345

<210> 12099
 <211> 342
 <212> DNA
 <213> Glycine max

<400> 12099
 agcttatgct gcaaacatct tcaatagacc tctcaacct caacaacaaa atcaaccaca 60
 acagaacaat tatgacctct ccagcaacag gtacaatctc aggtggagga atcatcccaa 120
 ccttagatgg tcgaatcctt cacaacaaca gcagcaacaa caacaacaac cttattttta 180
 gaatgctgtt ggccaagca gaccatacat tctccacca atccagcagc aacaacaaca 240
 acagcaacaa cccagaaaca acaaacagtt gaggtctctc cacaaccttc cttgaagaa 300
 cttgtgaggg aatgactat gcaaaacatg cagtttcaac aa 342

<210> 12100
 <211> 354
 <212> DNA
 <213> Glycine max

<400> 12100
 tcttagtctc atctgatgac aatgaattcg tggctacttt atgcactcct ctaatgacaa 60
 tagcatcact tatggcacta aattgttggg tcttcataa aaatattgga ggagaagctg 120
 ctcataaatc tgggtggtgag ggcaactagc acatagtttt ttaaatctct cccagtattc 180
 atataggctt tctccactga gttgccaat gcctaaaata tctttctga tggctcgtgt 240
 cctagaagca gggaaatttt tttctgaga atactctctt gaggtcatcc cagctcgtga 300
 tggaccttgg agcaaggtaa tatagccagt tctttgccac tccctctaaa gaat 354

<210> 12101

<211> 389
<212> DNA
<213> Glycine max

<400> 12101

tcattgcttaa ccatgtatgg caaaacttca ttatctgttg ttcaagacat acaagtgagc 60
ttgtaacaaa tttctacac ttggagtgat cacatgcagt cctcttgaac ccttaccacc 120
cactctgtca tcattgtgag actcaggaag cccaacaggt ttatctttct ctaattattc 180
tgaacaaaat tcaatggctt cttctacaat gtacettcca acaatagatg catctggatg 240
atatagattc ttgtataacc cttttaagat cttcatgtat cgcttaaccg ggtacatcca 300
ccgtagataa acaggaccag aacatttgat ttctcttgcc agatgcccc acaagggaaat 360
catgatgggc aaaaaagtgg gggaaaaaa 389

<210> 12102
<211> 366
<212> DNA
<213> Glycine max

<400> 12102

aagcttgctc aatcgagtag gagaaatgcc ttcatttcca tatctgcata ttgatcaatt 60
gcaaggtaga tgaaggacac gattatgagc aagagaaata gtgctcaaatt tatcaccaaa 120
aattcgagga atagtgtgag aaactttcag ctttaacaac aagggtctgaa ttgtttggac 180
ctctaaagta gctggagcaa ggttccagta cttagcttca gtgcttgaac gagcaacaac 240
agttttgctt ttggaccacc aagaaccat gctgggtcct aaaaagaaaa aagcattgaa 300
tgtagacccc ctgtcatttg gatccgaggc ctaattctaca tcacaatagc cttgaaaaat 360
aaaaag 366

<210> 12103
<211> 347
<212> DNA
<213> Glycine max

<400> 12103

agcttctcgt cagtggtagt ttaagttcca tgggataatt tcttcatttg gttttgatga 60
aaaccccatg gatcaatgca tataaccaca ggttagtggg agtaaaatat gctttcttgt 120

tttatatgta gatgatattt tacttgcagc caatgatcgg ggtttgctac atgaggtgaa 180
 acaattttctc tctaagaatt ttgacatgaa ggatatgggt gatgcattctt atgtcatcgg 240
 cattaagatt catagagata gatctcaggg tattttgggt ctatcacagg aaacctatat 300
 taacaaaatt ctagagagat ttccgatgaa agattgttca ccaagtg 347

<210> 12104
 <211> 330
 <212> DNA
 <213> Glycine max

<400> 12104
 tgttgggttat aacaaacttt aaccaactaa ctactaacta ataaaaattaa ctaccatattg 60
 aattaactaa tttcaacact tctctttaat tcatattgggt acaagacatt actcctagcc 120
 tatctctcat ttctttaaat ttgatacact tcaaaggctt tgtcaacatg tttgctagtt 180
 gatcttaaga tctacaaaac tcaagctcaa acttctcctt attcacatga tctctcaaaa 240
 agtgaaactt ggtctcaata tgtttacttc tcccatgtgt cactgggtgt tttgccaagt 300
 caatagttaa cctattatta attaacaatc 330

<210> 12105
 <211> 365
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12105

ttaagtcacc gcggctgcag cttgatgcac attnggtagg ttaatgaaac aacgaaatga 60
 tgtgctccat gagaggtttg atcaaatgga gaatagagat cataatgaag aagaaaggag 120
 gagaagaggg aatgatggtg ttccctagaca aaaccgaatt gatggtataa aactcaacat 180
 tctctctttt aaaggaaaaga atgatccgga ggctacttg gagtggaaga tgaaaataga 240
 gcatgttttc tcatgcaaca actataagga ggaccaaag gtgaagcttg ccaccatgga 300
 gttttccaac tatgctcttg tgtggtggaa caagctacaa aaggagagag caagaaatga 360
 agagc 365

<210> 12106
 <211> 354

<212> DNA
<213> Glycine max

<400> 12106

tytccacaaa gcctctccta catttggtcc atgaaaggca aaagatagtg gtctttcttc 60
atggcttctt tgagcttgag gtaatcgatg catattctcc agccagtga agtctctgtt 120
gggattaggt cattcttttc atcctgaatg attttcgtgc cccctttctt tggtaaccac 180
tggattgggc ttaccaagt actatcagaa atggggtaga taatccaagc ctctaaaagc 240
ttgagcacct ctctcttcac tgatgggtta aggtctctct tgggctgtct gactgggttg 300
taatcttcgc ccatacattat ggtgggcata ttagaaaacg gggatgaatct ttg 354

<210> 12107
<211> 344
<212> DNA
<213> Glycine max

<400> 12107

tgacactata aaactaagct tgtaggtaaa gtctcacgat tgcacgtgtt gatgcacaa 60
ttgttagctg tggctatacg agacatcttg ccaaacaaag tcaagttatc cataacttgc 120
ctgtgctttt tcttccatgc catatgtaac aaagtcgttg atcctgtcaa gtttgatgac 180
ttggaaaatg aggtcgtaac tatactgtgc caactggaga tgtattttcc cctgtcttcc 240
tttgacatca tgattcacta gattgcgcat ttggtgagag aaatcacatg ttgaggactt 300
cggtatttgc ggaggatgta cccggttgag cgatacatga aaat 344

<210> 12108
<211> 387
<212> DNA
<213> Glycine max

<400> 12108

ttaatcgatt accatgagca tataatcgat taccaatgtt ttaaaacggt agatttcaaa 60
tttcaagagt cacaacttgt gataaaacat tttcaaatca tttcaaactt gtgtaatcga 120
ttacacaata cttgtaatcg attaccagt tttctaaacg ttggttttca aatttaaaaca 180
tgaagagtca catctgttga tgtgtaattg attacactac aatggtaatc gattaccagt 240
gacttatctt gaaaaaataa attaccaaaa gtcacaattc ttaaagtgac ttgtttctga 300

agattttttc aaaagtcaca acctttaagt gactagtttt caaaagagtc acaactttta 360

gagtgactaa ttttcaaaag agtcaca 387

<210> 12109
<211> 349
<212> DNA
<213> Glycine max

<400> 12109

agcttctgtta ttcaatttcg ttcattctcaa tatattacgg gacttaatcg gacatccgag 60

ttaaaaagtta ttgttggttg catttgctac gagcttccgt tttcaattac gagcgtctcg 120

atatattacg ggactcaatc caacctccga gttaaaagtt attgtcgttt gaatttgcta 180

cgagcttccg ttttcaattt ctagtgtatt gatattattac gggacttgat cgaacattcg 240

agttaaaagt tattggcatt tgcatttact cacagctttc gttttcaatg acgagtggtt 300

cgatatatta cyggactcat ccgagttgaa agttagtgtc atttgaatt 349

<210> 12110
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 12110

ttctgccttc tgggtatgac accataatct atggcttttt ctctctctct cttaatcttg 60

aacctctatc tttntgtttc aagcacaagc aacaatttgt gttatcaagg ctttgaagtg 120

gtggaagaag accctaaagc ctaatatgat tgagatccat tcagcacaag aactgggtcca 180

ttctttgggc aacgctggcg attcattgct tgtggttgat ttctattcac ctggttggtg 240

aggctgcaaa gcccttcac ctaaggtagt ttgttttttg ttgtttggtg ttggaaaagt 300

catattctta taattttcta ttactaaca aatgcttcat ttttttttct aggtntttcg 360

ttttttgta caatatttga cttgctttca tcatgcgcga ctag 404

<210> 12111
<211> 386
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12111

tcattgaatt ggttggtgta ttgaagaaga tgcttctga acaaaacaca ttgcccanaa 60
atcactacga ggccaagaag attttatgtc ctgtgggaat ggagtaccaa aagatccatg 120
catgcactaa tgattgcata ttatacagaa atcagtttgc agaaatgcat aagtgcccca 130
catgtggggt atcatggtac aaagtcacag ataacaaatt tgttgatggt gcaagcaaaa 240
gcaatagtc ttagcaaaag gtgtgctggt atcttcttat aataccaagg ttttaagcgt 300
tytttactaa tggacatgaa gcaaaaaacc ttacatggca tgtagatggc agaaaaagtg 360
atgaattgct ctgacatcca gctgat 386

<210> 12112
<211> 364
<212> DNA
<213> Glycine max

<400> 12112
cgcttattct ggtgcatat atacttcacc aatgggtcaa agcggcttct tattctaattg 60
tcacgagaag ggtggggggt agattcataa agatggagct gatgtgtcta tacgaactcc 120
ctaggaagat cattactgac aatggcaccg atttgaacaa caaaatgatg cagcatatgt 180
gcgaagattt caagatccag catcataact ccacccctta tcgaccaaag atgaatgggt 240
ctatataagc tttcaatcag aatattaaga agattgttca gaagataacg gtgtcataca 300
aagattggca tgagatgatg cctttcacct tgcacggata tagaacctcg gtgcgaactt 360
ctac 384

<210> 12113
<211> 379
<212> DNA
<213> Glycine max

<400> 12113
tctgtatgct taactatgta tggcaaaact ccattactgt tgctcaagac atacaagtga 60
gcttgtaaca catcttctac acttgagtg atcacctgca gtcctcttga acccttacca 120
ccgactgtgt catcatgccg agactcatga aaccaccag gtttagcctt ctctaagtat 180
tctgaacaaa attcaatggc ttcttttgca atgtacctt catcaataga tgcttggtga 240

cgatatagat tctttgtata ccccttttaaa atcttcatgt atcgcctcaac cgggtacata 300
 caccggagat aaacaggacc acaacatttg atttctctga ccagatgcat aatcaagtga 360
 atcatgatgc aaacaaagt 379

<210> 12114
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12114

gtgatctatc caccaccgcc accaccatca ttntagttnt tctcttattt taatattact 60
 agtatattga ttccagccg tgtatttggc tatattatta tgacatttga acaatatagt 120
 atttctttat ttgcatgggt tgtttgaaaa attatgaatt atgttatatg actatgtgat 180
 tttctatat atttgatcta gtcattgttc ttgcttcatg attggtttat attttttcca 240
 tgattgttgt gtgaatgatt agttgtattt gtatgtttca tacttgttac gcactttggc 300
 tttttattgg tgccaaaggg ggagagaaat aggggttaaa tcaaggtaat gaatntaatt 360
 tcaagtgaag catatatcca aaaacaaagg gggagaatgg aaat 404

<210> 12115
 <211> 401
 <212> DNA
 <213> Glycine max

<400> 12115

cgcacatatc tcttttgatg tttaagaaaa ttacacatgt ctttcttgta tttttaatac 60
 ctacacaaac tccctaaatg tcgtctcaac atttggcagt aacaagtcac atacattaac 120
 aattttgatt aaaaaatatt aaaatatgtt tttcttcctt ataaatatga aaatgtttga 180
 aattaatcat tacaaaactt tttgtctata ttccattctc gcaaaaattta aatgttattt 240
 ttatgtttga gactaagttc aagtactaa aatttacgtg tatgttatta tagaatgtgt 300
 caattttttc aacttttttg catcatttat atgtataaac catgcagaaa cattgttttt 360
 gcattatata attgatgtaa aaaagtaaaa aaaaaacatg a 401

<210> 12116

<211> 352
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12116

tcttacaag catacggctt tctggatgta gatgatgata tctatacaga tggatcttat 60
 atatctatat atctatagat agatatatag atatagatat atagatatag atcatacaat 120
 gaagtaccgc acgagtggtt atataggaat ccaaactctgc cgaatcactc atgttatgat 180
 cttctacatc ctagggtcttc ccgttccttc atctggctta tgttcttcat gtagcattca 240
 gactgaatga ctctatgaaa ttacgtcgct acttccacat ggtacgggta acgtaggaga 300
 catctctant tttcccggtg gaatccttag aattacacaa gctagcttca at 352

<210> 12117
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12117

tactcagctt tactttggtt gctctgtttg gggtttccaa gcgttagaga gaaggggaag 60
 agattgtagc ctccatttca ctgtcaacgt gcgagactaa tttctctctg caaaacaatt 120
 atttcataaa tcccaacggc agtgatgtgc gaaaaatggg ttttgaaggt ggtgtccaaa 180
 tttcacaatg gtccacgggt tgacgagtcg gggatcgtag ttttactgag atagatttta 240
 ccacgggtgt atccaaacat gattgattca aaaggtgaac tatcaaattc attaattact 300
 atgtacaata aaagagtttc aggagtttga caagtttcac aagataaact ntgtaaaggc 360
 aaatatcata agaatgagag ttgaattgtg attntcaaaa 400

<210> 12118
 <211> 362
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12118

tgtacaagat tattgcaaag gtcttggcaa atatactagg aaggcttga gcaaggtggt 60
 ggatgataga caattggctt ttttgggtga aaggaataat atatttgatg ggatcttggt 120

tgcaaatgag gttgttcatg aagctaaggt tgagaaggaa catgtttcat tttcaaggct 180
gatttcaaga aagcatgtga ctggtaaga taggaatttc taacctatat gctacatagg 240
ctaggagttt gtatgaaatg gatttagatgg atgtgggtgt tctacaatc ttcattctacc 300
tctatccttg taaacgggat cccaatggaa gaattntatg ctaaaaaagg acttcgtcaa 360
ga 362

<210> 12119
<211> 387
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 12119

tcaatcatgt gtccaagtcn ttgatgccac aggggttgaat tattgacaac ctcaagtaatt 60
gttatcatat cctcatctgc aattatgtaa agagatcatt gcttctttcc atgagccaca 120
acgagattgc cttttgttac ctccaagct ccattctcaa aagcgggtgta atgcccccca 180
tcatccaact gccctataga tatttagattt ctctttaagg caagaatatg tctgacatta 240
tgcaatgtcc ataggggatcc actggaagtc ttgatgtcaa tatcacctct tccgacaatg 300
tcaagagatt ttccatctac aaggtaaact tttccaaatc ttctagaaat atagtttagac 360
aataaatctt acaggactat ccaagct 387

<210> 12120
<211> 380
<212> DNA
<213> Glycine max

<400> 12120
tgcaagctta accatggaac ggtatgagat aattaaagat attgggtcag gaaactttgg 60
tgtggcaaag ctggtcaagg aaaaatggag tgggtgaatta tatgctatca agttcattga 120
gagaggcttc aaggttctat tttcaaattc catgtatctt ttcttttgtc atatcttaat 180
cttgtcttgt gtacatatgt tttttagatt gtcttttgtt aatgggggtc tattgggttt 240
tgcagattga tgaacacgtg caaagagaga ttataaatca taggtccttg aagcatccca 300
atatcattag atttaaagag gtacggaatt ggagacgttt ttggtttcaa tgagtataaa 360

ctcaaagtgt aattatttgc

380

<210> 12121
<211> 368
<212> DNA
<213> Glycine max

<400> 12121

tytgctatcc caagttcatt aatcatacct ttaatccaga ttgcttcctt cacaccttca 60
gctaggggcca tgtattatgt ttcagttggt gaaagagcaa caactgattg ttgatttgct 120
ttccaactga ttgatgtacc aaacaaagta aacacatata ctgttaagga cttccttgtg 180
tctacatttc ttgcaaaato tgcacttgca tagcctgtga ctactgcttc atgtgttgtc 240
ttcttgact ttaaaccagc tttcaaagat ccatttagat accttagtgt ccacttcaca 300
gcttcccaat gtgcgctgcc aggatctccc atgaatttgc ttataatact tataacatga 360
gccaaatc 368

<210> 12122
<211> 380
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12122

aacagttctc taaccattcc aatccattca aatcatacaa ctgctcattc aaatcattct 60
cacactcatt tcatacaaa caatcaattg catatcattt tcaatcaatt cactgttcaa 120
acacactttt tgtacaagca aacaactcaa agtgccatgg ataagagctt ggaggaagaa 180
ggagatgaat gaagggagag ggagagaaga gcacggaatt ttgtgcteta agagagctct 240
gaaatctgaa gtttaatttt taaatgatca aagttgaaaa aatgcacaca catggcttct 300
atgtatagcc taagtgtcac acaaaattgg agggaagatt gaatttctat tcaaatTTTT 360
cttgaaattg aaattgaatt 380

<210> 12123
<211> 370
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 12123

tttgaattat caatatccaa acttgcttct acaccataa ttcttgccacc taattggaaa 60
tatgggttttg agctcatatg ttacgcaagt gattatgtag ttgggtgtgt cttgggacaa 120
aaaaaagaag acaaaatttt tcatgctata cattatgcta gtaaagtcct taatgagcat 180
caagtgaatt atgcaacaac caaaaatgaa ttactagcta taatctatgc attggaaaaa 240
tttagatctt atctcatttg ctctaaagtg gttgtttata cagattatgc aactattaag 300
tatcttctat ctaagcccgga ttccaaacca aggcttatta ggtggatact tatgttgtan 360
gaatttgatc 370

<210> 12124

<211> 390

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12124

gagaagcttt cttgagaaga ttccatagaga agctagagct tagctacaca ccccccttta 60
atagctaagc tcatctcttc cttgagatga taagatagag cttagctaca cacacacct 120
ataataggta agctctcccc catgccaaaa tacataaaaa tacaaaaaag tcctactac 180
aaagactact caaaatgcct tgaaatataa gactaaaacc atatactact agaatgacca 240
aaatacaagg tccaaaagaa ggaaaaacct attctaatat ttacaaagaa gagtggaccc 300
aatcttggcc catgggatca gaaatctacc ttgaggttca tgagaacct anggccttct 360
ntaacagctc tagcctaate ctctttgagg 390

<210> 12125

<211> 398

<212> DNA

<213> Glycine max

<400> 12125

ttatcggcct tgtatggctt gaaacaagct cccatagctt ggaacaagag aatagacacc 60
tttctcttgc aaattggatt catgaaatgc actactgaat atgggtgtgt tgtaaagga 120
gaaagtcttt cagatatcct catagtgtgt ttatatgtgg atgatttact gataacagga 180
aaggattgca gtgctatctc gacattcaag caagagatga agtctaagtt cgaaatgtca 240

gatcttggag aattatcata tttctgggc atatagttca agaggacaaa ggctggaatt 300
 tttatgcacc aaagcaaata cacaattgat gtcctaaaga ggtttcagat gcttgactgc 360
 aactcagttt taactcttgt tgaaactagt gctgtgct 398

<210> 12126
 <211> 381
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12126

agctcttgct acaacctttn tctccccctt tggcaacatc aaaaagccaa agaactcgga 60
 aatcaacaca gttataacaa tggagtagca agatataagt atcagagtat taaatacaat 120
 aagccaaact cataatcaat aaaataatca aaccagaatt caaataacat aaaatgtcaa 180
 caaccacaaa atatccaaga ctgaaattta aaaacacaag ataaataagc aaaatactta 240
 gcataataat gtaaattcta agaaactaaa aaccaaata caccgcttat aaaagataaa 300
 taagcagaat ctaaaatcta agaagacgga ggaggtggtg gaagatcgaa actctgacga 360
 atgtatcgga catcctcttc a 381

<210> 12127
 <211> 333
 <212> DNA
 <213> Glycine max

<400> 12127

tgttgatgcg gccttatctt gagatacacc cattctccct ccttaatctt tgaaggtagg 60
 tgacgattat tggcatactt tgatcatgtga ttctgagctt tgtttagatg aaacttcaac 120
 tgattaagtg gttcatctct ttccataaga tcataagtca ctgcctcaac taggacttcc 180
 cctggaatga accttgccaa agatgggggtg ttagaccata aactatttca aatgggggtac 240
 acctagcagc tccttggtga catgtattat accagtattc tgacatggga taaactcagt 300
 ccaatgattc cacaaaacct aacaacaaaa cat 333

<210> 12128
 <211> 294
 <212> DNA

<213> Glycine max

<400> 12128

tgtgacacta ctcaagcctg actcttatga gaacttcac tggtcagatt ttttaaaaag 60
gaacccttac cattgccac aaatgcacca actcagctaa ggaacaaaaa gcaagggttt 120
acatcatgag gaggtgtgtt gccatgttgg gttggtggca caagcatggg gattcatgaa 180
agaagtgcac agatcttgag cttagttttt attgaattat gaccttttat tggcctactt 240
tgaatactat aaattcgatt gtaattacaa gttgactaac gtgagttata agat 294

<210> 12129

<211> 419

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12129

agcttaaaca ttcaaatntg agcgtctcgt tatattacag gactcaatca gacatccgag 60
taaaaagtta ttgttctttg aattggctca gaggttcaac attcaattnt gagcgtctcg 120
atatattacg ggactcaatc agacatccga gtaaaaagtt attgtcgttt gaattggctc 180
agagcttcaa cattcnaatt cgagcgtctc aatatattac gggactcaat cagacatccg 240
agtaaaaagt tattgtcgtt tgaattggct cagaggttca acattcaatt tcgagcgtct 300
cgatatatta cgggactgaa ccagacatcc gagntaaaag ttattgtcgt ttgaattggc 360
tcacagcttc aacattcaat ttcgagccgc tcgatatatt ttcggactca atcagacat 419

<210> 12130

<211> 502

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12130

gatcctctta gtcacctgcg gcatgcaagc ttanggaat tactgaggag gccaaaagtt 60
ntgcaattgn gaacagggtc cttgctgcac tatntgtaca tacaccagcg ggtgagctgc 120
agcgtcaaat tagatcctgg cttgcagaga gttntgagtt tctatcttta acggggagaag 180
atgcatcagg ggggtcaact ggtcagttgg aactctcttc aactgcaatt atggatgggt 240

ggatggcggg acttggtgct gctcttctc cccacactga tgcccttggc cagctattat 300
 ttgaatatc aaaacgtgtc tatacttctc aattacaaca ctggaaggta tgctcttagt 360
 tagttctgtg ttgcatgact tataaatgca tacctcaca gttctcgatg gaagccttgt 420
 ttacttttagg actttgttga gagatgacac tcatacattt cattgcattc aaatattaca 480
 atagtctaaa cataataccg ag 502

<210> 12131
 <211> 271
 <212> DNA
 <213> Glycine max

<400> 12131
 tttagaaaa tcaaatggtc atttcttttc actcgaaggt ctgatcaggc gcatcagata 60
 tagagacgct cgaaattgat caacggaagc tctcgagata ttcaaatggt cataactttt 120
 agctcggagg tcggatttag gcacataata tatcgagacg cccgaaattg aacaacagaa 180
 gctcttgaga aattcaaatg gtcattactt ttcactcgga ggtccgattc aggcgcacat 240
 cctatagaga cgctcaaaaat tgaacaacga a 271

<210> 12132
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12132

agcttgagan tgaacaactg atagctctcg atatattaga aggtctacct tttagacagca 60
 agtcagattc acgcacataa tatatcgaga cgctcgaaat taaataacgg aagctgtcga 120
 gaaattcaaa tgctcattac ttttactctg gaggtccgag tcaggcgcac aatatatcga 180
 gacgctcgaa attgaacaac ggaagctctc gagaaattca aatggtcata acttttgaca 240
 cggagggtcag cttcacgcgc ataatatatt gagacgctcg atattgaaca acagaagctc 300
 tcgagaaatt caaatgggtc taacttttga cccgaaagtc agattcaggc gcataatata 360
 tcgagacgct tgaattgagc aacggaagct ctcgagaaat tcatatagcc ataacttttc 420
 actcggatgt cagagtcaag cgcataatat a 451

<210> 12133
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12133

```

agctnttgca agctggaatc atttatecta tctccgacag ccaatgggtg agtcccatcc 60
aggtagtccc gaagaanacc ggccctaccg tgataaaaaa tgagaaggat gagcttattc 120
ctactcgagt gcagaacagt tggagagtat gcattgacta taggaggctg aactatgtta 180
ccaaaaagga ccattttcca ctgccattca ttgaccagat gcttgaacgc ctggcaggta 240
aatctcacta ctgtttcctt gatgggtttt ctggttatat gcaaatcact attgctcctg 300
aggatcagga naagaccaca ttcacctgcc ccttcggcac ttttgcttat aggaggatgc 360
ctttcggcct gtgcaatagc cctggtacct tctcgcggtg catgattagt atttttagtg 420

```

<210> 12134
 <211> 458
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12134

```

agcttcatga tgaatgaaga gtgattcaaa gatgttntga tgataacaaa gatgataaca 60
aaagatgatg acaaagggtg tgacaaaaag ctcanaggtc aatcaaagaa tgagttcaag 120
atattcaaga taaaatcaag aacacatcaa gattcaagag gaaagttaat ttcaagaatc 180
aagattcaag agatcaagat tcaagactca tgactcaaga atcaagagaa ggcttaatca 240
agataagtct ganaagggtt atcaaaaatt gagtggcaca tggatttttc tcanaacatg 300
tttacgaaag aagttttact ctctggttat cgattaccag agtgggtgtaa tcgattatca 360
gtagcaaaat ggatttgata aagttctcat atgagattac aacgtttcaa ttgatttcaa 420
aaagctgtna tcgactacaa tatttttgta atcgatta 458

```

<210> 12135
 <211> 384
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 12135

agcttcttag ttctcgatta tgcaactgag tttgtagcta cctcatgcac tcctctaatag 60

actataacat catttctggc gctaaactgc tgggagttgg aaaccatctt ctcaattaaa 120

tttctggctt cagcaggagt catgtctcca agggctccac cactggaagc atctatcata 180

cttctctcca tattattgag tccttcataa aaatattgga gaagctactc cgaaatctaa 240

tgggtgagggc aactggcaca tagttntttt aaatctctcc cagtattcat acaggctctc 300

tccactgagt tgtctaatac ctgagatata ctttctgatg gctgtgggtcc tagaagcagg 360

gaaaattttt tctaagaata gtct 384

<210> 12136

<211> 279

<212> DNA

<213> Glycine max

<400> 12136

ttgtttttat acattcagtg tcatattaaa atatttttat atttgcataa aggaatgctt 60

gcaatatatt ctgttttgta aagaagtaag gaaatttatt aaattgtgag tgaaccaaac 120

atttcgtaaa attcacgtta attatatcta atattaaaaa ataagttaga aatatattaa 180

tatttttctt gtcaaagtat agtagatctt ctcggtgcta gtgattttga ttaatataat 240

ttaacaatct atccaaaata tgaatatgtc tatatatta 279

<210> 12137

<211> 433

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12137

agcttcacag cggagaggag ataacacctg cacttttgaa ggcaattaaa gattccagaa 60

ttgccatcac tgtgctctct gaagactntg cttcttctctc attntgctta gatgaactta 120

catccattgt tcaactgcgc cagtataatg ggatgatgat tataccagtg ttttataagg 180

tgtatccttc tgatgtcaga caccagaagg gtacttatgg agaagcattg gctaagcata 240

agataagatt tccagaanag ttccagaatt gggagatggc tctgcgtcaa gttgctgact 300

tgtctggctn tcatttcana tacaggtaac caatgatacc aatcttttta tgttttaatt 360

tttattggaa ttaattaaagt tactcgtctc acaanttaat gttcaaatat taataacaga 420

gatgaatatg agt 433

<210> 12138
<211> 282
<212> DNA
<213> Glycine max

<400> 12138

tctgggtggga catcttgact tgctttccaa ttgacatgc accacagatt ctgccttctt 60

ctattttcag attaggaatg cctctaacag cacccttgtc aatgattttc ttcataacctc 120

ttaagtgcag atgtccaaat ctttgatgcc atattttgac ttcactcttct ttggagaata 180

gacatgtgga ggaggaactg gtttcttgag gcgtccatag gtagcaattg tcctttgac 240

tgctgccctt cattagaact tcactcttct catttgtcac ca 282

<210> 12139
<211> 392
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 12139

acaatataacc ttctcaacct cagcagcaaa atcaaccaca gcagaacaat tatgacctct 60

ctagcaacag atataacct ggatggagga atcacccctaa cctcagatgg tccagccctc 120

agcaacaaca acagcagcct gctccttctt tccaaaatgc tgctggccca agcagaccat 180

acattctctc accaatccaa caacagcaac aaccccagaa acagacaaca gttgaggccc 240

ctccacaacc ttccctcgaa gaacttgtga ggcataatgac tatgcaaaac atgcagtntc 300

agcaagagac cagagcctnc attcagagct taaccaatca aatgggacaa ttggctaccc 360

aattgaatca acaacagtcc cagaattctg ac 392

<210> 12140
<211> 446
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 12140

agcttaggct gcanacattt ataatagacc ctctcagcag cataaccaac aacagcaaaa 60
 taattatgat ctttcaagca acagatacaa tccagggttag agaaatcadc caaatctggg 120
 atgggcaagt cctccacaac aacaacagcc tgttctctct ttccagaatg ttgttggtcc 180
 aagcaagcca tatgttctct ctccaatata gcaacaacaa caacaacagt cacaacaaag 240
 acaacaagca actaaggatc ctcttaacc ttcttagaa gagttagtga gacaaatgac 300
 catccagaat atgcnaattt agcaagagac aagagcctct attcagagtt tgacaaatca 360
 gatggggcag atggctactc acttgaacca agctcagtc caaattctga caaattgctt 420
 caccactgta cataatcnaa aaatgt 446

<210> 12141
 <211> 279
 <212> DNA
 <213> Glycine max

<400> 12141

tgccgccacg gagttttccg actatgctct tgtgtggtgg aacaagctac aaaaggagag 60
 agcaagaaat gaagagccaa tgggtgatac atggacagag atgaaaaaga tcatgaggaa 120
 gcggtatgtg ccggtagtt actcaaggga cttgaaattc aagctccaaa aactaaccca 180
 aggcaacaag ggggttgagg agtatttcaa ggaaatggat gtgctcatga ttcaagcaaa 240
 tattgaagaa gatgaggagg taactatggc tcgatttct 279

<210> 12142
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12142

agcttctcga tatattatgc acctaatcg gacttccgtt tgataagtta tgaccatntg 60
 aatntctcga gagcttccat tgttcaattt cgagcgtctc aatatattat gcgctgaag 120
 cggagcttcg tgtgacaagt tatgaccatt tgaatatctc gagagattcc gttgttcaat 180
 ttcgagcgtc tcaatatatt atgcgcctga atcgacatc cgtgtgacaa gttatgacca 240
 cttgaatntc tcgagagctt ctattgttca atttcaagct tctcgatata ttatgcgcct 300

gaatcggact tccatgtgat aaggtatgac catntgaatt ctcgagagct tgcggtgttc 360
aattcgagcc gctccatata ttatgcgcct gaatcg 396

<210> 12143
<211> 272
<212> DNA
<213> Glycine max

<400> 12143

tccattgttc aatttcgagt gtctcgatat attatgcgcc tgaatcggac ctccgaatga 60
aaagttatga ccatttgaat ttctcgagag ctacctttgt tcaatttcgt gcgtctcgat 120
atattttgcy cctgaatcgg acctccgagt gaaaagttat gaccatttga atttctcgag 180
agcttccgat gttcaatttc gagcgtcttg atatactatg cgactgaatc taacctccgt 240
gtgaaaagtt atgaccattt taatttctca ag 272

<210> 12144
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12144

ctgcagactg agaaagagtt tgtatggagc ttgtatgaaa attcctatga anagcattgg 60
gagattgaag accggattac agaaatgcag ataagggttt gcagctggca agatgagttt 120
ggcattaata caatgataga agataacgat gcacgagctt tgatggctgc aacagcttta 180
tattcttgca aagagaccct tgctaagtng caagagacac aggcacaatc atctgaagag 240
gctaaagaat cctaccaaag ggttaaggaa gctcgtgaca tgtttgaaac cattagaggg 300
caacttcatt ctaaactttt atagtcagaa gaccaaggaa ctgaaccata aagcatagag 360
gaagaagaca tgtctagctt ggaagagaaa ggcattgagcc tgatgtgga 409

<210> 12145
<211> 267
<212> DNA
<213> Glycine max

<400> 12145

cgccacggag ttttccgact atgctcttgt gtggtggaac aagctacaaa aggagagagc 60

aagaaatgaa gagccaatgg ttgatacatg gacggagatg aaaaagatca tgaggaagcg 120
 gtatgttccg gctagttact caagggaactt gaaattcaag ctccaaaaac taaccaaggg 130
 caacaagggg gttgaggagt atttcaagga aatggatgtg ctcatgattc aagcaaatat 240
 tgaagaagat gaggaggtaa ctatggc 267

<210> 12146
 <211> 271
 <212> DNA
 <213> Glycine max

<400> 12146
 ttgaacaacg gaagctctcg agaaatttga atggtcataa catttcactc ggatgttcga 60
 tccggggaca taatttatcg agacgctcga aattgaacaa ccgaagctct tcgacaaatt 120
 agaatgtcgg taacttttca cgcgaatgtt cgattcgggg acataactca tctagacgct 180
 cgaaattgaa caacggaagc tctcgagaaa ttggaatggt cataagtttt cacacggatg 240
 tccgattcgg aacatattta tctagacatc g 271

<210> 12147
 <211> 276
 <212> DNA
 <213> Glycine max

<400> 12147
 tgtgtagcga taattctagc tgggaaaaga ttttcgcacc tattaccagc atgtcgggtc 60
 agcttgataa tagtttctc ctcttctctg gtgtagtttc ctcttttgag gtttggcctt 120
 aggtaattca gccaccttag tctgcaactc tttccacatc tcgcaagacc taacaaatta 180
 ataacaacaa caacaaagta aaaccaatta caatggattc atatatgatt tagctataag 240
 ctgtgcatgt atataattaa atattgaata tatgg 276

<210> 12148
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12148

tgttagctat aagaaatatg gaaaccaata ttacaatat aataagattg ttagtttaag 60
 gtaatgattg aaattaaatt aacaaatata ttttaattttt tagttataaa aaatatcgaa 120
 accaaaattt aaaatctaag ataggataag attgttagtt taaaataatg attgaaataa 180
 aatttaaaaa tatattagat ttggtagtta taataaatat tgaaacccaaa atttaagatt 240
 taaaatttat ttattaatcc atatgtnta attattttta attattcttt tagaaatatt 300
 ttataaatta tattttctaga aattttttac ttcttttaat ttatctatag aaatctatac 360
 attagaagat ttgatattta atngaagat gtatttagat gtttat 406

<210> 12149
 <211> 353
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12149

aaaattgtag gaaaactatt gccactaaaa cgtnnttcta ttctaagaat atcataaaca 60
 agaacatatg ccatatatat tcattaactg aagaaagtat aaatatacat accgtatctg 120
 caaccacatg atcaagagat ggaacataac catgcaatcc atcactgcct ccatgacctt 180
 aaaaataaaa caaatcatcc cagatccatc acaaaatggt aagtacggaa tggaaaaaga 240
 aatcttaaac tacctatcca gtccattgca tagacaccaa agttgcatga tgtaaatagc 300
 cttgcanagt ccgcatatct tccactgaaa aatgagtgcc aagtcagaga agt 353

<210> 12150
 <211> 383
 <212> DNA
 <213> Glycine max
 <400> 12150

agcttgtact ttaccttagg agccacatag ttcggaactcc cacaagttgt cccacaagtt 60
 gtccgaagga tactcgcccc ctatcagaat attcaaaagt ttgaagcagt ttggtattat 120
 tatatcttac atgagtcgaa gtcatatata aaagctaatt tggtgacaag etcacctgct 180
 caggaaatgc actcaaacca taatcggaat tctttatatt tcttagtgaa tcaagtaaaa 240
 gattttcagg ctgcacaagg caaaaagaaa aaaagaaaat tagaagatat cacaataagg 300
 acaacaaaca acttctcaga tctcactcaa tgcaaacctt taaatctcag tgataaactc 360

ccttactgtg gcaataatct aca

383

<210> 12151
<211> 314
<212> DNA
<213> Glycine max

<400> 12151

ttctcgagag cttccgttgt tcaatttcga gtgcctgtat attgatgccc ctgaatcgga 60
catccgagtg aaaagttatg accatttgaa tttctcgaga gcttcctatg ttaatttcg 120
agcgtgtcga tatattatac gcctgaatcg aacctcagtg taaaaagtta tgaccatttg 180
aatttcttta gagcatccgt tgttcatttt cgagcgtctc tatatgtgat gcaccttaat 240
cggacctccg cgtgaaaagt taggaccatt tgaatttctc gagagcttcc gttgttcaat 300
ttcgagcgtc tcga 314

<210> 12152
<211> 420
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12152

agctntacta tgcagagaat atccaaggaa aataccttca tctgacttag catcaaattt 60
tectaagtta tcttttccat tattcaatac aaaacattta caaccaaaga tatgaagatg 120
tgagatgttt ggttttctgc cattgaacaa ttcatatgga gttttcttta aaatgggtct 180
tattaaagcc ctatttataa tgtagcacgc agtggttaacg gcttcagccc aaaagtattt 240
tggaagagga gtatcattta ataaagttct agcaatctct tccaaagatc tatttttctt 300
ttccacaaca ccattttgtt gaggggttct tgggtgcagaa aagttatgct caatcccatg 360
cttatcacan aataattcaa attcttttat ttcaaaactca ccncatgat cactcctaatt 420

<210> 12153
<211> 460
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12153

gcttaagaat cattttcggg tcaagagaaa gattgttggg cagttggatc tctcattgtg 60
 gattattgag ttgaccttgc ggatttaatt attattaata tgaatatgcc ctacctttac 120
 attttaattt taattcatgg aattgattgt aagggtgcga ccaatttatt tttatatgt 180
 ttgtttatag gtaagaattg aagatatata ccaagaaatt tacaattcac atacatattc 240
 aatcaattga gttagattcc ttattgatat tgaccaattt attaatattt ttatataaat 300
 gtcattattg ccttaaaaaa tgcattattt ganacaatng gtactttttt tttcgagcac 360
 gaaacaattg gtacttgttt atatccacat gttgtaaattg tctatttcca aatatgtgat 420
 atagttggac agtatgtatt taagtatat ttaattttct 460

<210> 12154
 <211> 431
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12154

agcctgacag gttcaggtgc atgtgctgct actgngggag gcacttgaat ttggttgcc 60
 tacctcaagg tgatggcact cacatttttt ggattctgca cagtttgtga aggcaaattg 120
 tcagaatttt gggactgagc ttgggtcaac tgagtatcca tctgccctat ctgatttgtc 180
 agactctgaa tggaggctct tatctcttgc gtgaaatgca tattctggat ggtcatatgc 240
 ctactaact cttctaagga aggttgagga agagccatag ttgcttgttg ctttgttgcg 300
 actactgttg ttgctgctac tggataggag gaagaacatt ggcttacttg gaccancaac 360
 attctgaaaa ggaggggacag gctgttgttg tgtggaggac tttccatcta catttgatga 420
 ttcttcacct g 431

<210> 12155
 <211> 281
 <212> DNA
 <213> Glycine max
 <400> 12155

tgtagagcat cgatcgggtg tgggtgtagg ggggcacgta aaactgcacc tgctagtacg 60
 gggagcatcc gttgctaccc atcacgtggc ggaggtgctt gccggcgtgg agggcctgag 120

ccaccatgcc ttgcattggt gattgaatgt tatggttggg tgtggtggtg cacgtcacg 180
 tgtcttggtg tccctgcaac ttcattgtgt gcattaatat tcttctcttt ggaagcacac 240
 caaccatatg ttctcttttc ttgcattca ttttctttca c 281

<210> 12156
 <211> 368
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12156

agcttgttgc aattcttcta ggtctgggagt cataacatgc aatcctctag aacctttacc 60
 tcccactctt tcgttatacc gagactcggg aaccccaata gggtttgcct ttntaatgta 120
 ctccgaacaa aacttaatag ctntttttgc aacgtacctt ttaacaatag atgcttcagg 180
 atagtgtaaa ttctttgtat acccttttat gatcttcctg tattgctcaa ccgagtactt 240
 ccattggtaa ataaacaaaa ccacaacatt aatttccctc accagatgaa caattaatag 300
 aaccatgatg ctgaaaaaca aaggaaggaa atacatctcc aatggacata agataataac 360
 aacctcat 368

<210> 12157
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12157

agcttcatct aagtacctg ctctgccaag tatatccact aaacatgaat aatgagttgg 60
 tctaggctcc acactatagt ctctagtcct ttgtagaan atctctttac cctcgctccac 120
 taatccagaa tgactacaag ccgataaaac tgcagtgaat atgcccctcat ctggtgtcac 180
 acctttacct agcatttcat aaaaaatgga gatggcctct ctccccctcc catgaattcc 240
 aaatccagta accataaccg tacaagcagg caaatcttct tcatgcatct catcaaacac 300
 acgacaagca canaaccaaa cttcacagtt agcatacatg ccaataagtg cccgtccccc 360
 aacaacattc acaacataac cctctttaac aacatatgac 400

<210> 12158

<211> 301
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12158

gaaagcttaa gtattgtatt cccatttctt ttgtacagaa ctctctcttc tggtaggcnc 60
 ttaaggtaat ggagaattat ataggatatc tgtaagtgga tttctcttgg acagtgcata 120
 aataggctca ccaagctaac aaaaaagta atatcagacc ttgtgtgaga caagtaaatc 180
 aattttccaa ctgacgatg atacatctcc ttatccactt ctgcactgcc atcttcatta 240
 cccaatttaa tgtttgaatc catgggagta cctctcaatc gacccatcta ccctatatatt 300
 t 301

<210> 12159
 <211> 278
 <212> DNA
 <213> Glycine max

<400> 12159

tcaaaagatc atccccctga caacattatt gcttatatct caaaaggggt aacaactaga 60
 cattctctta aagatttatg caataatatg gcttttgaat ctatgattga acctaaaaat 120
 ataaaagaag tcatagtaga tgataactgg attattgcca tgcaagaaga actgaatcaa 180
 ttgaaagaa acaatgtgtg ggaacttgta gagaaacctt aaaattatcc catcatagga 240
 acaaaatggg tatttagaaa taagttagat gaacatgg 278

<210> 12160
 <211> 267
 <212> DNA
 <213> Glycine max

<400> 12160

tccattttca attaccagtg tctctatata ttacgggatt aattcggaca tccagtaaa 60
 aagttattgt tgtttgattt tgctcagagc ttctgttctg aatttccaac gtcttgatgt 120
 accactagcc acaatcagac atccagtaga aaagttattg tcgtttcaat ttgctcaaag 180
 cttttgtttt caattttgag tgtctcgata tattacaaga ctcaatcgga catccaagta 240
 aaaagttatt atcgtagaa ttgtctc 267

<210> 12161
 <211> 277
 <212> DNA
 <213> Glycine max

<400> 12161

ttatagagag ccatgccaat agtatagtga atactattgt tataagtga ctctatcaac 60
 ggaagaaaaac tctcccaact tcttttttct tctaagacac atgccatcaa aaggctctct 120
 agcgactgaa tggttcgttc agtttgtcca tcagtctgag gatggcaggc tgaacttagt 180
 caaagcttgg ttcccaatgc tctgttcagg ctctcccaaa atctagaggt aaaccttaga 240
 tctctatcag acactatgct agatggcaca ccatgta 277

<210> 12162
 <211> 387
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12162

agcttgtcaa ctctcctaac catatattgc tgtctaattc ctcccttagaa tcacacatt 60
 cagagtagta tactatagta gagactcttt aaattaatac tctgtcaatc aataaactct 120
 ctaaaaaat aaatntttcc ggtcccgaca tgggccaatg caaaaaattg gaaaactcaa 180
 taaaaataa agataataat ctttcgtgag atccctgtat tattttcggc cccaagaaaa 240
 tcataaatta ataattcata gaaactagaa acaaatatat tacactctat tgaatatga 300
 ttcaatagtt gtctgtttcc tttatagta agtctatttg gagctcatct ctaacttttc 360
 ttattgcac caatagctca ggtgttg 387

<210> 12163
 <211> 317
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12163

agcttgctaa agcactgctn tcaactccaa cttnttgaaa ggtcaatgat gaanaataaa 60
 gaactccatt tatgcttgca aactgctgaa gtacaaaaag agtacctcca ataaaggcaa 120

ctgcaatcat acaaagaaaa tccacagcaa attttatget tcaaactttc aagtgccatg 180
 cacaagtaat gattataaat atgtatttgt ttataaaaag agaaagtttt gttttatgga 240
 gctaaattca tcccctatc cagctgaaac tattactnta atgtacttat ttttctctg 300
 acatggtaag caatcta 317

<210> 12164
 <211> 455
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12164

agcttaagaa aaagatggcc ttagcaaatt tcttatttcc agaagggaat tctatcaata 60
 gacctccaat ctttaaatgga gaggggttacc actactggaa aaccogaatg caaattttta 120
 ttgaggcaat agatctaaat atttgggaag ccatagaaat agggccttat atacgcacca 180
 cagtagaag agtttcaata gatggtagtt catcaagtga aagcataact atagaaaaac 240
 ctanggatag atgggtctgaa gaggatagaa aacgagtaca atacaactta taagccaaaa 300
 acataataac atttgccctg ggaatggatg aatatntan ggtttcanat ngtaagagtg 360
 ctaaggaaat gtgggacact cttcgattaa cacatgaagg aactacaaat gttaaaagat 420
 ctaggattaa tgcactaact catgaatatg aatta 455

<210> 12165
 <211> 278
 <212> DNA
 <213> Glycine max
 <400> 12165

tattcaagca aatttacgta tgggtgtcca tggtgccaaa agttatcagg ggcgtgggtct 60
 cagccttcag gacttattac aggtagcctt ttagaaatta aagaccttcc tttccctgta 120
 gcaaaggctg tttagtgtat ggtttctctg gtttggtata ttctaaattg tgaatatcat 180
 tcaagaattt tttggattgc ctagtatttc atcaattagt taaccaagat tcttgacttt 240
 tcttaaatgt gaaagagata cactaggata aaaagact 278

<210> 12166

<211> 277
 <212> DNA
 <213> Glycine max

<400> 12166

```
tcaagaataa tggcctcatc aaactattta tttctgaag ggaattcaat aaataggcct 60
cctattttta atggagtggg ttaccattac tggaaaaccc atatgcaa atttatagag 120
gcaatagatt taaatgtttg ggatgcaatt gaagtagggc cttatattcc caccatggtt 180
gctgggaata caacaatata aaagcctaga gaagattgga gtgaggaaga aagaagacta 240
gtacaatata acttaaaagc caaaaacata attacat 277
```

<210> 12167
 <211> 388
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12167

```
acccttgatg caacatttgg agaggttaat gaaacaatga gatgatgcgc tccatgagag 60
gttggatcaa atggagaata gagatcataa tgaagaagaa aggatgagaa gagggaaatga 120
tgggtgttct agacaaaacc gaattgatgg tattaactc aacatttctc cctttaaagg 180
aaagaatgat ccggaggcct acttggtgtg ggagatgaaa atagagaatt ttttctcatg 240
caacaactat gaggaggacc aaaagggtgaa gcttgctgcc acggagtttt cggactatgc 300
tcttggtgtg tggaacaagc tataaaagga gagagcaaga aatgaanagc caatggttga 360
tacatgggcg gagatgaaaa ggatcatg 388
```

<210> 12168
 <211> 280
 <212> DNA
 <213> Glycine max

<400> 12168

```
tcggtattca atttcgagcg tctcaatata ttacgggact caatcagaca tccgactaaa 60
aagttattgt cgtttgaatt agctcggagg ttcaaaattc aatttcgaac gtctcaatag 120
attacgggac tcaatcagac atccgagcaa aaagttattg tcgtttgaat taactcagag 180
cttcaaaatt caatttcgat cgtctcgata tattacgga ctcaatcaaa catctgagta 240
```

aaaaagttat tgcgtttga atttgctgaa agcttcaact

280

<210> 12169
<211> 377
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12169

caaactaaca tgggacctga aaaaaattac atcaaagacg cgaacaacatg gagcgaagaa 60
gctcgaagaa tggcctcaac actgtacctt tggttccacc caattctacg acacatacat 120
caactggacc gatcattcca tctcccgnnn tngngcccct ctttcaatcc aatcttgaat 180
agcatcactg atatgaggca cgacctacag aggaaaacac catcataaga ataagaataa 240
tgattctcat gacaataata atattaggac caacatggaa aatgaaaacc ttggcttata 300
aatacatca cantataaac atantacaaa atnnnttaag ccnnnccctga acngttttgc 360
tacctantct ccttttc 377

<210> 12170
<211> 417
<212> DNA
<213> Glycine max

<400> 12170

agcttggcta actctatagg agacatctta tatgttgcta tggatatggg tccagcacca 60
ggtactaggt ctatggaaaa ctctatctct ctcggttggg agactgaata taccctcaag 120
gaacacttca ggaaactctc taacaataga gaggccacac atggaaacct ttgtctgtat 180
ttctaagttg gacaagatca tgtacacttg agcttcttct tttaaagatg ccacaacttg 240
gttggcagag atacatcata tcttactca ctccagaatc atcaaaccac acagttttat 300
caaacagtt taacaagaca tggttggaag ataaccagcc catacccaga ataacatcta 360
tttggctcaa agacaaacag atcagatcaa tctagaatgt tatgccagaa atttcta 417

<210> 12171
<211> 428
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12171

```
ttcagcacct aatgtcatat tatattgtaa ttgggtatct taacataaga gatttcagat 60
ggactttaat cctaatacca caatcgacct tttagcaga tctctactta accctttggt 120
taaatgatcg gccaaattat gctgagttct cacaaactcc actgatatca caccatgcat 180
gattaactcc cgaatcatgt tgtgtctaac acccaagtgt ctgacttcc cattatacac 240
ttgactatat gccttagcca aagttgctg actatcacac ctgatagaca tgggaggtat 300
aggtttgggc cacaatggaa tctcatagat cagatttctt agccactcaa cttctntacc 360
agctgctgct aaagctacaa attcaaattc cattggtgaa ttgtaatgc aggtctgttt 420
cttggatg 428
```

<210> 12172
<211> 428
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12172

```
agcttgctaa agctgaagaa ttcttctttt ctggattggg acccgagat acttcaaacc 60
cactaggatc aaagggtgca gctgtcacag tcaatgaaat attangtctc aattcacttg 120
gcatatatat ccttggcag catagatttt gcacctaact caccctagag ggacagagat 180
tcttgtagtc ttggaaggta ccctctacgt tggttttgtc gcgtccaatc aaaacgacaa 240
ccgtttatcc accaaagtgc tgaacaaggg tgatgtgttt gtgttcccaa tagggctgat 300
tcacttccag caaaacatan gttatggaaa tgctttggcc attgctggtc ttagtagcca 360
aaacctgga gttatttcca ttgcaaatgc tgtgtttgga tctanacctc ctatctctga 420
tgaagttc 428
```

<210> 12173
<211> 433
<212> DNA
<213> Glycine max

<400> 12173

```
agcttatgct gcaaacatct acaatagtat tcttatactt aagcagcaaa atcagccaca 60
```


acaaaacaat tatgacctct ccagcaacag gtacaatcct aggtggagga atcatcccaa 120
 ccttagatgg ttgaatcctt cacaacagca gcagcaataa caacaacatc cttatttcca 180
 taatgttget ggccaagca gaccatacgt tctccacca attcaacaac agcaacaacc 240
 ccagaaacaa caaacagtgt aggtctctcc acaaccttct cttaaagaac ttgtgaggca 300
 aatgattatg caaacatgc agtttcaaca agaaaccaga gcctccattc agagettaac 360
 taatcagatg ggacaattgg ctacacaatt aaatcaacaa cagtcccaga attctgacag 420
 attacccttt taa 433

<210> 12174
 <211> 358
 <212> DNA
 <213> Glycine max

<400> 12174
 gctgtgccga aaggaggatt gtattatgta ttatttagag ccagctggag accatcaatg 60
 ctttccacat aatttccttg tcggaggggt tcaatttgte gcccttggtc gaggacaaga 120
 ggagggagga gatgagggtc gccaccgagg ggacgcccag caccgtcatt tctcggtctg 180
 aggaggtggc caaggccggg aagttcgacg tcaggagtag cgagaccaag gtgaggcttc 240
 agggtcagga gcgtgggagg aagggggaagc tggcgattgc cgcggatate tactccgtga 300
 ctcttctttt tatggtgctg gacgccaaga aggaccatgg ggataccttg gagtataa 358

<210> 12175
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12175

agcttggatt tccttttagt atttaattta tccttcttaa gatggagcca aaccagtc 60
 ccctcatata gaactagctc ttttcttctt ctattgcctt tagttgaata cacccttggt 120
 tggttctcta tttggttctt aacctctcta tgcattctct ttacaaattc tgacctagat 180
 tccccctctt tatgtattaa agaagtgtcc agtgggaggg gaatgaggtc taacggtgtt 240
 aggggattga acccatagac aacctcaaaa ggggactgct tgggtggtct atgaaccccc 300
 ctgtttagg caaattctac atgaggaaga tactcatccc aagacttatg gttgcctttc 360

agaagagccc ttaaaagggt ggataaagac ctattcacta cctctgtttg cccatcagnt 420
tgtggatg 428

<210> 12176
<211> 403
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12176

agcttagtgg cactcatctt cgaatgtttt ctgttaccat ccacagagtg atggacagac 60
agaagtcatt aacagagtaa ttgaaggtaa ttacgagct tttgttcac gtaggccaac 120
atcgtggggg aagtctttac cctgngtaga actatctcat aatacttcat ggaatagcag 180
cacaggctca accccttatg agataacata tggacgcaag cctttttctt ttccagatta 240
tattgcaaga tctcttaaaa ttgatgcagt agatgatctt ctcttgctc gtgatgaagt 300
gttactact attcgccgga aattactcaa ggcacaggtt tccatgaaga aaactgcgga 360
tgccaaacgg agagaggtaa ttatgagccc ggcaggtggg tat 403

<210> 12177
<211> 353
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12177

tttatgtggt cttgaatggc tatcacaggc ctatatatat gtgacttgag acacgaattt 60
gctaagagag tttttcagaa caaaaaggct ttatcctctt ataaagaaca atcgttttat 120
cctcttacia attccttggc caaattactt gtgattcaat aaggaattat ttgagtgtc 180
aaattgttca atctatctct ttcaagagag atttcttctt ctcttcttct tcattctgaa 240
aagggattaa gagaccgagg gtctcttggt gcgaaagaat tctaaacaca naggaagggt 300
tgtccttggt tgtttagaac ttgaanagga atttacaaga tagtggaact ctc 353

<210> 12178
<211> 379
<212> DNA
<213> Glycine max

agcttctatg atcagtcgaag attataattt ggtgccctaa aagatactgc ctccattttt	60
taacacgagt ggtgatcgca gcgagttcac gaacataagt ttaagaagag agtaacctgn	120
gycaaaaactg cttgctaaaa aaagctatcg ggtgtcttcc ttgggacagc accacaccca	180
taccogaacc cgaggcgctc gtctccaccg cgaagggtt tgtgtgctaa gactagagaa	240
tgtgtcatag catgcttcaa ttgttgaag gcaacatcag ctccacggt ccagtggaac	300
tcttctcttg tcaacagact tgtaagtgg tctgccaaca ttgcgtagct ccttataaat	360
cttcaataaa acccaagca	379

```
<223>      unsure at all n locations
<400>      12179
```

agcttctcga	tatattatgc	tctctgaatt	ggatttccgn	gngagaaggt	atgaccatng	60
gaatttctcg	agagcttact	tcgtgcaata	tcaagcatgt	cgatataata	tacgacttaa	120
tcggacttcc	attcgataag	ctatgaccat	ttgaattctt	cgagagcttc	cgctgatcaa	180
tttcgagcgt	ctccatatac	tatgcgccag	aatcagactt	tcgtgataca	aggtatgacc	240
atgggaatat	cccgagagct	tccgttgatc	aattttgagc	gtctccatat	actatgcgcc	300
tgaatcggac	tcccggtgta	tgagagatga	ccattttaat	taaatagagag	ctcgcggtgt	360
acaataccaa	gcgcaactct	ttattatcg	cctga			395

```
<223>      unsure at all n locations
<400>      12180
```

5135

gacaactttc caggtttctgc tatccagtga tttaggaag gccaccatcc ttgctttcca 180
gtattcatag ttggttccat ccagaattgg tggctctgttc actggctctc cttctttctc 240
catgttcac agaatattatc tccttagatc tcaactcagt atttcgagtg cctgctctga 300
taccaattga aattctgata cagaggtcag atgtcgtacc ggaatgcacg acatcacgct 360
tcagaacatg gagattatat ttgact 386

<210> 12181
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12181

agctttctaaa ctttgtacaa gtatgattct ctgataccac ttgttagaca agtggcctca 60
gatattctaa gaaggggggg ttgaattaag atattccaaa cttttctcct aattaaaaat 120
ctatcttact ttttacttaa gttatgaatt cccttaatga caatcttctt aaatattaat 180
tcaaatgaag caacttgaat tatgaatata aagcaataat aaataaagga gattaaggga 240
agagaaaatg caaactcagt tttatactgg ttcgccaca cccttgtgcc tacgtccagt 300
ccccaagcaa cccgcttgag agttccacta acttgtaa atcttttaca agttctaac 360
acacaaggac aacccttctt ttgtgtntag agattcttta caacaagaga ctcacagtc 419

<210> 12182
<211> 437
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12182

agcttccatg taagaaggca attttaactt caaattgaag catctcccaa ctaaagtgcg 60
ctgttaagga gatgatgac ctaactgtat tcatttttct cattggagcg aatgtctcct 120
cataattgat tccataggtt tgggtgtatc cctttgcaac caaccttgcc ttatatcggt 180
ccaatgtgcc attagcctga tatttaacgg tatacatcca cttataaacc attgtctttt 240
tgtcttttag tctctctaca atctccctc tcatttcttt ccaatgcacc cattttctca 300
ttcatggctc ataccaggt ctcaccttc aaggcttctt gtattgatgc agggattttg 360

atagaatcaa tagctgaaat aaaactatgg tgctgtagag aaagatnttt agtagacaca 420
aattgngata tatgata 437

<210> 12183
<211> 443
<212> DNA
<213> Glycine max

<400> 12183

tatagacaac tcaagccttt tttagtaaga atgtgggctc agtctctcaa aatattaatg 60
tcaactagtct ccgtgctttc aattaagtcc attgcttctc cggggggttt cattttgatc 120
ttacccctag ctaaagcctc caagagctgc ttagattgta gtctcaaccc atctatgaat 180
atgttgagct gtattgggtt tgaaaaaccg tgagtgggat tcttccgcaa taaacctcta 240
aatctttcaa gtgcctcatt caaagattca tctggaaatt ggtggaagga agagatggta 300
gctttgcctt ctgcagctct cgattcaggg aagtacgtct ttaagaaatt ttctactact 360
tcateccatg acttcagact gtttccctta aaagaatgaa gccatctctt agcttctcca 420
actaaagata atgagaacag act 443

<210> 12184
<211> 448
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12184

atthttggtg gggctttgct agaactctaat tcttacaatt ttntataaaa atttctatcc 60
aatagttgct atgctaactt ggtaataaat ttgctcagat tcaacaagac gcacattatt 120
aggttgggct aagcgattcg aaattattgg tggaattgct cgaggacttc tatatcttca 180
tcaagactct agactaaaaa tcattcatag ggatctcaag actggtaatg ttcttctcga 240
tagtaatatg aacccaaaaa tatcagattt tgggatggct aggacatttg ggctggatca 300
agatgaagca aacacaaata gagtgatggg aacatagtaa gcttttctat agttggttat 360
ttttttatth ccccttttac aatggcttct agcttctcat gtggactcct gttttctatg 420
cagtgggata tgctctctga atatgctg 448

<210> 12185
 <211> 376
 <212> DNA
 <213> Glycine max

<400> 12185

```
agcttatgct gcaaacattt ataatagacc cccttagcat caaaatcaac aacaatagaa 60
taattatgat ctttcaagca acacatacaa tccagggttg aggaatcatt caaatctgag 120
atggacaagt actccacaac aacaacagcc tgccctccc ttcagaatg ttgctggtcc 180
atgcaagcca tgtgttctc ctccaatgca gcaacaaca agacaacaag caactgaggc 240
ccctctcaa ccttcttag aagatttagt gaggcaaatg accatctaga atatgcaatt 300
tcagcaagag acaagacctc cattcagagt ctaacaaatc agatggggca gatggcaact 360
cagttgaacc aagctc 376
```

<210> 12186
 <211> 443
 <212> DNA
 <213> Glycine max

<400> 12186

```
gacactatgc tactcagctt gagcaattca aacaacaata actttgatat cgggtgtccga 60
ttctgtcccg taagatateg agacactcgt aattttaaac ggaagctctg agaaaaatca 120
aacgacaata acttttaact cggatgtccg actgagcct gtaatatagc gagacgctcg 180
aaattgaaaa cggaagctct aagaaaagtc aaacgacaat aacttttaac tcggaagtcc 240
gattgagcct tataatatat cgagacgctc gaaattgaaa acggaagctc taagaagagc 300
caaaagacaa taacttttaa ctcggatgtc cgattgagta ccgtaatata tggagacgct 360
cgtaattgga aacggatgct ctaataataa tctaacgaca ataactctta actcggatgt 420
cggattgagt cccatattat atc 443
```

<210> 12187
 <211> 278
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12187

catgcaagcn tgacattcat ttctgtcgtc ctatatatta cgggactcaa tcggacatcc 60
gagtaaaaaag ttattgttgc ttgaattttt tcagagcttc accattcaat ttcgagcttt 120
tcgatatatt acgggactca atcagacatc cgagtaaaaa gttattgtcg tttgaatatg 180
ctcagacgtg cggcattcaa ttctgagcgt ctcgatatat tacgggactc aatcagacat 240
ccgagtaaaa agttattgtc gcttgaattt gctcagag 278

<210> 12188
<211> 358
<212> DNA
<213> Glycine max

<400> 12188
agcttcttag ttccagatga tgcagattgg tttttatcta cctcatgcac tctctaatg 60
actatggcat catttctggc gctaaactgc tgggagttgg aggccatctt ctcaattaaa 120
tttctggctt cagcaggagt catgtctcca agggctccac cactggcagc atctatcata 180
cttctctcca tattactgag tcttccataa aaatattgga gaagaagctg tcttgaaatc 240
taatggtggg ggtaactggc acatagtctt ttaaactctt cccagtactc atacaggctc 300
tctccactga gttgtcta atctgagata tcttctctga tgggtgtggg cctggaag 358

<210> 12189
<211> 432
<212> DNA
<213> Glycine max

<400> 12189
agcttcccta agaagattcc ttaagaatct agttcttagc tacacatacc tctctaatag 60
ctaagctcac ctcttgaga tgagaagcta gagcttagct acacaccccc tataatagct 120
aagctcacc ccatgacaaa aaacatgaaa ataacaaaaa aaaaagtcct tattacaaag 180
acaactcaaa atgccccgaa atacaaggct aaaaccctat actactagaa tggccaaaat 240
acaaggccta gacgaaggaa taacctatct taatatttag aaagataagc gggctcatac 300
ttagcccatg ggctcgaaat ctaccctaag gctcatgaga accctagggc ctttctctgg 360
atctctagcc caatctactt ggagtcttct agccaatgcc cttgcggggg aggattgcat 420
caagttgtag ta 432

<210> 12190
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12190

agccatccac atacaagcat ataatgaaac aatcatcttt catagacttc ttgtacacac 60
 atctatcaac atcactagag gaaaaacat cactaagcaa agtctaatta aacttttcat 120
 gccattgttt ttgtgcttgt ttcaaacgat atggaaattt taaaagttgt cacactttgt 180
 tttcttgatt agtgaatttc agctatggtt caaccnctn ngcggaaatc aaatgctaga 240
 gtctccacta agtgtgctta agtttcatga agcatgtaa gcataagga catgccccnn 300
 nnntttcaat tgggtgtcac atgctaagtc tcacctccc ctttaagcttg gtcaaattta 360
 attggattga acttgtggca tgtaattaaa tttctttcca acacacaca 409

<210> 12191
 <211> 458
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12191

tgtaatgcga accaagaaga atgaaatgaa ctttaagatgc tgttgggatt atcgtctacg 60
 ggccttaaac agagaaacga atcaaggacc taaaaaggga ttattaaaga ggttaaaaaa 120
 acggaaattg taaaacaaga ataacataat aacagtattt tacttgagtc ataacataat 180
 ttcttttata ttattatttt gataatcgat acacattata agtatattagt ttactatttt 240
 atattgttta ctagatataa aacttagacg gaatatacgc gtttaaccgta aaaatcataa 300
 aaatgtcttt cgatagataa ttatattttc atgctagatt ttattgacaa atacgatttt 360
 tttttatcat gaatcataaa atttatattt tgattgtaag ttttttttat canatatata 420
 attntcaact taagataatn gtttatatgt tgacaaaa 458

<210> 12192
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 12192

ctgcagcttc tgtccctgag aaacttttct tgattacaac agggagtgaa gattgctgaa 60
aaccttagcc ttgcaacaag tcctagggaa gtagacacgg agatggacaa gaaaatccgc 120
agtattgtga gtagcatttt gaaagacgcc tctgttctctg atgctgagaa agatgttcca 180
acatcctcca cccagatgt tgctgtccct gaagctgatg aagatgtccc aacatcttcc 240
accccgatg tttctgtgcc tgatgctgag aaagatgttc caacatcttc cggcccaaat 300
gctgaagtac tctctttccc cagcaaagag agatcaacag aggaagatga tcaagccaca 360
gaggagaccc ctgcaccaag ggcacaagaa cctgc 395

<210> 12193

<211> 435

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12193

tatcctatct gttaaataca gggcatcctt gtctttatan tgcttggaca aaacagagaa 60
ataacagaat aaacttccat atggcatttg gtcacatccc aacaattcac caccttgaac 120
taacatccat ataggacaca aactgcaccc tccaaacaca catgatttta accccaacaa 180
tctacattga gcaagcttaa gcagtgatca aacttgctct ttggaactgg ctttgtgaac 240
atatcagcaa gattgtgcag agtgcgtgatc ttatgaactt tgattcttct ctctgaccga 300
atgaagtgat atctaacatc tatatgtttg gttctatcat gatgaacctg atccttggcc 360
aagcatatag cactaatgct gtcacagtag atgttagcat attcttgatt aattctgaga 420
tcatttatca gacct 435

<210> 12194

<211> 422

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12194

agctttaaat aggcctnggg ttcaatttct acttttatgt aagccgagtc gagccttaaa 60
aaaagcctat gacaggtaat gagtcaagct caagtcatac gtattcaact caagccgagc 120

tcaagcctag taaagcttgg ctggccttgg ctcatttcca cccctaataa tgaagaggaa 180
 atggacattt ggggtgtacaa cacaacctac caaaagtgcg gttctagtga aagatgaggg 240
 aatgggataa agtaagctag tcggcgcccg tcactttcct ctttcattca ttcattcatt 300
 catttacttt tcttcacaca aattacctct gccatcaacc tgcactcacc aacccaactt 360
 cttcccaaac cccaaacaga acaaaaatac aacaccttta attactctct tgctaaatat 420
 at 482

<210> 12195
 <211> 400
 <212> DNA
 <213> Glycine max

<400> 12195
 agcttgcaat tgacatatag ggtcgttcta aaatgactgg aacctcatgg tcttctccca 60
 gatccatgac caaaaatca gctggaaaga ccttcacttt tatcagaaca tctcaatta 120
 ccccgtaagg tcttgtgatg gatcggtcaa caagttgtaa agtcattctc gtgggcatga 180
 tttccaactc tcacaacctt ctacacatgg agagcggcat taggttgcta ctgggtccca 240
 aatcaatgag agtctttctg atgtgccatc attttcttct atttcttaaa ccttttttgc 300
 accattttta ttactgatta gtcttaattg tcaaattaat taagcagttt tattatttgg 360
 gcacattgag ctaatttgat gtttttaata taatttcag 400

<210> 12196
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12196
 taacatcaga ccacttccag ggttctggtt ctacttttca tggatttgat ggggcctatg 60
 caagttgaaa gccttgagg aaagaggtat gcctatgttg ttgtggatga tttctccaga 120
 tttacctgng taaactttat cagagagaaa tcagaaacct ttgaagtatt caaagagttg 180
 agtctaagac ttcaaagaga gaaagactgt gtcacaaaga gaatcaggag tgaccatggc 240
 agagaatttg aaaacagcag gttcactgaa ttctgcacat ctgaaggcat cactcatgag 300
 ttctctgcag ccattacacc acaacagaat gggatagttg agaggaaaaa caggaccttg 360

caagaggctg ctctgggtcat gcttcatgcc aaagaacttc cctataatct ctgggctgaa 420
gccatgaaca cagcatgtta ca 442

<210> 12197
<211> 327
<212> DNA
<213> Glycine max

<400> 12197

agcttaaaca ttcaatttcg tttctctcta tatattacgg gacttaatca agcatccaag 60
aaaaaattta ttgtcggttg aatttgcga gagattcaac attcaatttc gagcgctctg 120
atatattacg ggactcaatc agacatccga gtaaaaagtt attgtcggtt gaattggctc 180
cgagcttcaa cattcaattt cgagcgcttc gatatgttac gagactcaat cagacatccg 240
agtaaaaagc tattgtcggt tgaatttgcg cagagattca acattgaatt tcgagggtct 300
cgatatatta cgggactcaa tcagaca 327

<210> 12198
<211> 453
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12198

nttgttagac aagtggcctc agatatctta agaaggggtg ttaatataag atattgcaaa 60
ctatttcccc aattaaaatt ctatttcaat ttcaatgcaa gttacaagtt cccttaaaaa 120
tgaattctta aataatgatt caaatagaac aatctgaata taaattaaag caataataaa 130
taaaagagtt taagggaaga taaagtcaa actcaaattt atactgggtc agccacaccc 240
ttgtgctac gtccagtccc caagcaaccc gcttgagagt ttcactatct tgtaatatcc 300
ctttacaagt tctgaacaca caaggacaat ccttcctttg tgttcagatn tctttacaac 360
aagagacctt cggctctctc atcccccttg agaatttaga aagaagagaa gaataaatct 420
ctcttgaaaa gatagattgg caatctgaca ctc 453

<210> 12199
<211> 380
<212> DNA

<213> Glycine max

<400> 12199

gttttagaggt attagttgac taattatggt ttattgcttc tgacttatta aggttttaggg 60
ttatttgaaa agatagggtt gcttgactaa ttgggttttag gggattttga caaataaagg 120
tttaggggta ctgacgaat tcgaatttaa gggattttga ctaatgaggg ttatgtgtga 180
gttgagttaa ttacggttta gtgttacttg gccaatagg gtttatgggt atttgacaaa 240
ttacggttac ttgactaatt aaggtttatg ggtatttgaa aattaagggt taaggttact 300
tgacaatttg gggtttaggt gtatgtgact aattaagatt tatagggtact tgactaatta 360
aagtttagtg gtacttgact 380

<210> 12200

<211> 373

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12200

agctntgata aatctgacaa agaaacgtgt tnattgtctc tatattaagg gggatatctag 60
tgaaggagac actagagaca gtggaagcag caaaatgcag acaatagttg ttgtgatcat 120
tgtcatagta acattgcttg tcatttctgg tatgtctatc gtggcacata gatgcttcag 180
gaaaaaggaa gatttgcttg agtctcctca agaggattca gaagatgaca gtttcttgga 240
gagtttaact ggcattgcaa tccgttacag ctacactgat ctagaaactg caacaagtaa 300
cttctctgtg aggcttgag aaggggggtt cggttcagta tataaaggag ttctaccaga 360
tgggactcaa ct 372

<210> 12201

<211> 443

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12201

ctcaagctag cttaagacac gatatagatt nctttaattt gcactctatg ttttctcttc 60
cttcaactga gaacccatt ggttggtcca tataaacatc ctctctataa tctctattca 120

aaaaggcagt ttccacatcc acctgatgta gctccaattc ataatgggct actaatgcc 180
 tgataatcct aaataaatcc tttcgtgaga ctggagataa cgtctcttta taatcaatgt 240
 catctttttg agtaaatccc ttagcaacaa gtctagcctt gtaacgttca aagttgccat 300
 gagagtcaca tctagtcttg aagaccact tacaaccaac tctgttaciaa cccctttggta 360
 attctacaag gtcccaaaaca ccattatggt ccatggaatc tatctcttct ttcatagcat 420
 taaccatctc tcaaaattat cac 443

<210> 12202
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12202

tagcagttca gtttcatggt gtacagaagg acatgatttc ttatttaatt ttgattcaac 60
 acatatttca cattttcttat ttttttttat cattcatatt aattaaacct agttgttgca 120
 aattcataac atacgttgga ttaacatgtc ctaatctagc atgccatata tcataagaat 180
 caatcaagta agcaaaagaa gatgcattct cattaatcac tttagaaaca tatagtaciaa 240
 agagaccccg atcacataaa cccatcccca taaatacatt attcttggcc ataattatct 300
 tattagactc aaacctttcg caacaatggt atagaaacaa ggtcaactct catagaggga 360
 acctgtagca cattattcat agctagtant ttcccacata tgagtntgag aagaaatate 420
 ccccttcctt gaaccagagt agttc 445

<210> 12203
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12203

agcttatgca tgcaagactt tcttatttca aagtcacttt aatagctcat attataaaat 60
 gacatacaaa catatgagtc cagctagcta tcttaaacia tatgaaactt aattttttgt 120
 gatagccttc aaactacaac aatgattatt atcttctttt ttaacaaatc tatatttttt 180
 tattacaacg tagctaattg ggtttatggt gaattcaaat ttctaataatc aatttttagg 240

atgttttaga ttttaaagat actatccaat ctttttaaga tgtttatttt agaaattaat 300
 gtgtttttta tgtaaagttt atgatttggt ataaaaataga gggttttataa aaaaaattat 360
 caagcatgga atagatanga aaattacaaa ttttacacga aatattagta aaaaaatagg 420
 cttaattaa ta 432

<210> 12204
 <211> 461
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12204

tggectagcc cacatcacat gttaagtgc aagcaattgc atacaaatgc tgacttttcc 60
 ttttaaaaaa ataataaaac aaagatatgt gcgggtccca tgttgctcaa aacgtttcgt 120
 tttcagtttt cacatcttct gtaagtacat gaacatgtcc tgcaagggcg agagctggcc 180
 catntgatac tgaacagtcg caaaaaggta atcatccacg gaaaggttat tatcggtcaa 240
 gtaattaaac tgaaaatcaa acgcgttttc tagctttagg tccagatcat cgttccactt 300
 ggggtcgttc tgcacctccc tctcgcacgt gacatcgggc gaaaccacgt gctccgaact 360
 gctcgagtcg gtgttcaacc ttggcaccga atccgaagtc tccatgtaca attgctcatt 420
 tcttagctta tgaatctctg gcttcgtctc gttctcgtgc t 461

<210> 12205
 <211> 454
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12205

tctaagtcac ctgcggcatg caagctttta atagaaaaga atatnnaaat attgatttaa 60
 agcaaagggt gtttgctttg ttgatttttt ttatttcatt tatattaata ttttttatat 120
 gtcaatttct ttttataaat ttagaataaa atcagtgaat tcaaatcaaa taccaagtac 180
 ttgagcattc tattcaaaac tctctctat gcccatagct actgttcatt ttacgcgaat 240
 agcaaacatt attaatacat atttagcatt aagtcaatta tatatttaaat ttagtatttt 300
 aatgattga gtgttacgta taatttaaga attaattcaa atatacagat tgtgtaaata 360

tttttatgtg actatttaac cataaatcag tatttttttg gtattatcctt aaatttagag 420
 ttaggttttt ctcattaatc atcggtataa aaat 454

<210> 12206
 <211> 309
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12206

actccttcgc ataactgtnt ttatcacccc tgteccagtt atgaagaaac acgtgcgtca 60
 cacccgatcc ctttctccca cgcgccatca ttgcggcgga gtatatacc gccatcctcc 120
 caggcgcggc cgcaaaatat cctcgcggcc catcaatcat gatcacatcc caatcacggt 180
 tgtacacctc attgggcagc gtgccaaagt ccagcttaca ccaccgatca ctttcagtg 240
 ggtggtcaga ggtgttcttg ctgacaccgg gacaataatc tttataagag gagaggaggt 300
 tcttgacct 309

<210> 12207
 <211> 458
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12207

taatcaagat aagtatgaaa aggttntttt ttcaaattct gagtagcaca tgaatttttc 60
 tcaaaacatg ttaccaaaag agtttttact ctctggtaat cgattaccag attattgtaa 120
 tcgattacca gtacaaaac ggatttgaaa aagttttcaa attgaattta caatgttcca 180
 attaatcca aaaggctgta atcgattaca atgttttggt aatcgattac tagtgccctt 240
 gaacgttgaa attcaaattc aaaagtgaag agtcacatcc ttccacataa aagctttgtg 300
 taatcgatta cactgatttg gtaatcgatt accantgatt ggttatgagt aaatcaaaag 360
 atgtaactct tcaaatgggt ttgactttn tcaaattggg tttaagtttt ctaannagta 420
 taactcttca aatgatcct cttgaccaga catgaaga 458

<210> 12208
 <211> 369
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12208

agctngaattg gaaacnagat ttctngggttt atttggtaac ccaacnggcc atgaattaaa 60
aatgtgcacc tgtcgccaga ctctgtgctt tatgctcctc tgccaaccac cacacagacc 120
tttgcccttc tatgcagcaa cttggagcaa ttgaatagcc tgaagcttat gctgcacaca 180
tttacaatag acctccggaa cctcagtata caaatcaac cacaacagaa caattatgac 240
ctgtccacca acaggaacaa tcccgggtgg aggaatcctc ccagccttat atggctgagt 300
ccttcacaac agctaccaca acaacgacag ccttatgttc agaaagtggc tggcctaagt 360
agaccatat 369

<210> 12209

<211> 343

<212> DNA

<213> Glycine max

<400> 12209

agcttgatga tgaatgtcta gttgccttcc atactttgaa agaaaagctt gtatcagccc 60
caataatgat tgcacctgac tggagcaagg agttcgagct aatgtgtgat gccaatgatt 120
ttgttgagga tgaggttcta tgatagcggc gagacaagat attccacgcc atatattatg 180
ctagcaaggt ttggaatgag gcacaattga gatatgcgat tgttgagaag gatatgttgg 240
ccatcgtcta taccaactta taaccaaact tctctttatc aaatatcact cgagatcgct 300
tcattgggtca acgccttaac gaattctcgt tctcatattg aat 343

<210> 12210

<211> 420

<212> DNA

<213> Glycine max

<400> 12210

tgcatcttcc ttggtcgggt acatgagcat atgcaatgct ccttatactc tcaagtgate 60
aactcttggc ttcactccac tccatgcttc ttgtggtggt tgatctttga cattctttgt 120
tggggagcga ttggacaaat aaacggcaca tgcaacagct tcggcccaaa attcctttgg 180
catattttta gccttcaaca tacatctagt catattaaga atagttctat tttttctctc 240

tgctacccca ttttgttgtg gagatctagg aaccgttaga gggcgacgaa tcccatattt 300
 ttcacaaaat tcattaaatt cttttgatgt gaattcacca cctctatcgg atcttatagc 360
 tttgattaca taaccactct ccttttccac aaaacttaaa atttttaaaa ctcaaagtgc 420

<210> 12211
 <211> 420
 <212> DNA
 <213> Glycine max

<400> 12211
 tctaagtcac cgccgtgca gcttgggaag taccgggtc tgttggttg tattggttt 60
 gctgacaaat agtgtagtgt caaacaaaat ctttagtgc aaagtacatg tgttggatcg 120
 agtggcctca gaataattaa gaaggagggg tttaattaat tattcctaag cctttactaa 180
 ttaaaaattt actcttctaa ggcttttact atgttgtaa gagaataagg agtagaagag 240
 aaacttaacc aaaagtaaaa gcggaaatta aaatgcacag cggaaagtaa aagagttagg 300
 aagaaggaga caaacataca agagttttta tactggttcg gcaacaactc gtgcctacat 360
 ccagtcacca agcgacctgc ggtccttgag atttctttcc accttgtaaa aatcctttta 420

<210> 12212
 <211> 447
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12212
 accaaacctg acataacctg cacatggaga gcaatgtagg cactctacaa ttctggcaag 60
 gctcaagcta taggggtcag caatttctct gtaaagaagc ttcaagattt gttggatgtg 120
 gcaagtgtgc ctccagctgt taaccaagtg gaattgcacc cttcattaca gcagccagaa 180
 ttgcatgctt tctgtaaac caagggagtg cacttatcag tgagtgtgca aatttaaact 240
 caaacattta tgcactgtac atgaacaatg attttaagat cggaccagtg attgaaacta 300
 gttcaatggt tcgactgtag ttgaatcggg tttatatatt tttaatataa tataatattt 360
 caactaataa aataatatat aattaanaaa ttataaatta atataaatga ttaaattata 420
 tatttcgtaa gataaaaatt aataata 447

<210> 12213
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 12213

```
agctatggag tttccaagtg ccaattcttc ttcttcttta gtccagtcctt cttctggctt 60
caatccatca gtgggctttc cttctgtgtc cagcatcttg ggaatgtccc agcctttgat 120
gacagctttc caggtttctg taccagtgga ttgaggaag gccaccatcc ttgctttcca 180
gtattcatag ttggttccat ccagaattgg tggctgtgtc actggtcttc cttctttctc 240
catgttctac agaattttac tccctaggtc tcaactcagt atttcgagtg cctgctctga 300
taccgaattg aattctgata ccaatgccag atgtcgtaca ggaatgtcac acatcacgct 360
tcagaacatg catattatct ctgagtgtat g 391
```

<210> 12214
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12214

```
agctnngtga ccctnanaga ttttggttta gtgtatnctt ttccatcttt gtgatttgat 60
tcaaaacagc ttttaacatt tttctgtcac aagataaagg gtctaagcaa taacccaaat 120
ttggtgctcc tccatatggt gtagttgcat ggttgagagg gaacttaggc tccatagtgg 180
tcatgtgggt gaaaatgggg tttgtttggt tctgagagaa aatggagaag cacggcactt 240
gtc aaaactc atctgcatgg gtttgagttt ggtcaaaact tatgtaagag tccattaacg 300
caggaagagt tgaagatccc gtgtctcat aacagctacc catgctatgt ttggctaaaa 360
cttcaactgg tttgtagaac accctacaca aaaccaatc tttctgcatg tacacaaggt 420
gcaaacatt 429
```

<210> 12215
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 12215

agctcgaggg anaacttgat ttcttggtca acctantaac tcagcttgcc atcaatcaca 60
aatctgcacc tgttgcaaga gtctgtggtc tatgttcttc tgcagatcac catcacagatc 120
tctgtctttc ttgcaacaa tctggagtta atgaacaact ggaagcttat gctgcaaaaa 180
tttataatag acttctcag caacaaaacc aacaacagca aaataattat gacctttcaa 240
gcaacagata caatccaggt tggaggaatc atccaaatct gaaatggaca agtgctccac 300
aacaacatca gtctatccct cgtttccata atgctactgg tctaagcaag ccatatgttc 360
cttctccaat gcaacaacag tagcaatagt ctcaacaaag accacaag 408

<210> 12216

<211> 388

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12216

tatggcgcca aaagataagc tacttatact gaagcatgtt gaagttggtg tttaaaaaca 60
ctgtatcctt gaatagcaga taaaggtcag cttctcaaag gcaagtaaga ctctaaaaat 120
tgaaaagcta taattggtgc acacaaatgt ttgggggcca gccccattga aatctgttgg 180
aaactcacgc tattatgtct cttttatcaa ctagtctacc aaaaaagtat gggtttattt 240
tcttaaaaaat aaatctgatg tgttttctgt gtttaaaagg cgnaaaataa atatttaata 300
tcaacaaggt cttacggta aaagactgaa atcttacaat ggtaaggagt atgatatgca 360
ggaagttata gacttctggt ctgaacat 388

<210> 12217

<211> 290

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12217

tttgggtgca catgataaaa gataggtttt cggaacaaag gaaatctaag ctccaaccaa 60
ggggagatgg accatttcaa gtgcttgaaa gaatcaatga caatgcttac aaagttgagc 120
tgccccgtga gtataatggt agttccacct tcaatgtctc tgatatacct ctttctgatg 180

cagatggaga tattcgattg aggacaaatc cttctcatga tggagagaat gatgaggaca 240
 tgaccaatag catnggcaag gatccacttg aatgacttgg aggacctatg 290

<210> 12218
 <211> 352
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12218

gacattgaga tgctatatat tgagaaatgg aagttcttga gaaattcaat tggtcataac 60
 ttttcaactcg gatgtcagat tcagagcaaa atatacagag acgctcgaaa ttgaacaacg 120
 gatgctctct agaaatttaa atggtaaaat nttttcacat ggatgttata ttcgacacat 180
 aatatatcga gacgttcgaa attcaagaat tcaaaaatta aagttctcaa gaaatataga 240
 gatgaaaaat tatgaccatg ggtgtacgaa tgagacccat gatatatcga tatgctcaaa 300
 attcacaat tggtccaatt cacaattca cagagcccta acctttgaca tg 352

<210> 12219
 <211> 133
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12219

agtcctatta acaacttccg ttggcccatc ggtttgtggg tgacaagtgg ttgaaaataa 60
 catttagtgc ccaacttgct ccacanagtc ctccaaaaat gacttaggaa cttagagtcc 120
 ctatcactaa caa 133

<210> 12220
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12220

acaatcagtg tcatactatn gatcanaaca nagcatgtat aaatatgcaa tactagactc 60
 aaaatatgca acaaacacta gacctaaatc agtgtcacag aaattggaag aaaatatattt 120
 atccaagcac aaacttcaag ccttattcca tgtattgtgg ggaagtatg gctggccata 180

tgggtagagg tgtcatanag gagcangtat ggaggaaggg accttggact gctgaagagg 240
 acaagttgct tgttgagtat gtcangttgc atggtgaagg cagatggaac tctgttgcta 300
 tgcttgcaag taagaaacac caaactttnt tcacntgttt gtttcttaat atatattgatt 360
 ggattttcac atttataagt gacaatatag canaaaaaca actgannatt gtttcaactt 420
 ctactg 426

<210> 12221
 <211> 314
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12221

ataataagtc anaatgtgta acacggatat ttctgttata tttatttaga aaggaaaatt 60
 ggctgcgtga attgctaact ttcttttgtt actaaactaa actatttcac aactatttgg 120
 ggaacttggt gatttgaatg tgatttcatg gaaaagtggg cgagcttttc tgttntctca 180
 tgcaatgaac gttactgtag gaccaacaga agacagagaa ctaatgactg gtcttcacac 240
 tgttgctgat gtctactgtt ctgactgccg tgaagtgcct ggctggaagt atgagagagc 300
 ctactaggaa tcac 314

<210> 12222
 <211> 285
 <212> DNA
 <213> Glycine max
 <400> 12222

ccttctcgct tagtcatctg ccttgggtgtg ggcggccac cgtctaaggc aatacatgct 60
 gagccatact acctgggttg tgtccaagat ggatcagtta agtatatgtt tgagaagcct 120
 gcccttacgg gatagatcgc tcgatggcag gtgttgctat ccgaatttga catcgtctat 180
 gtcacctgaa agtgataaag ggaagcacct tggcagatta tctggcccaa caacctctca 240
 atgattatca gcccatgcat cctaagtttc cagatgagga catca 285

<210> 12223
 <211> 305
 <212> DNA

<213> Glycine max

<400> 12223

atgacaatct gaattgctct agagattcca ttgttcaatt tcgagcgtct cgatatatta 60
tgaatttgaa tcggacctcc gagttaaaag atatgaccat ttgaatttct cgagagcttc 120
cgttggtcaa ttctgagcgt ctcgatatat gatgcgccag aatcggaact tcgagtgaag 180
agttgtgacc atatgaattt ctacagagat tcccgtggtc aatttctagc gtatagatat 240
attatgcgcc cgaatcggac ctccgagtga taagttatga cgatttaaatt ttctcgagag 300
cctct 305

<210> 12224

<211> 340

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12224

nntgatgcaa cattggagag gttaatgaaa caacgagatg atgcgctcca tgagaggggtg 60
gatcaaatgg agaatagaga tcataatgaa gaagaaagga ggagaagagg gaatgatggt 120
gttctctatac aaaaccgaat tgatggtatt aaactcaaca ttctctccatt taaaggaaag 180
aatgatccgg aggcctactt ggagtgggag atgaaaatag agcatgtttt ctcatgcaac 240
aactatgagg aggaccagaa ggtgaagctt gccgccacgg agttttccga ctatgctctt 300
gtgtggtgga acaagctaca naaggagaga gcaagaaatg 340

<210> 12225

<211> 134

<212> DNA

<213> Glycine max

<400> 12225

tatatcgaga cycaagaaat tgaacaacgg aagctctcga gaaattcaat gtcataact 60
tttaacacgg aagtccgatt caggcgcata atatatcgag actcacgaaa ttgaacaacg 120
gatgctctcg agaa 134

<210> 12226

<211> 323

<212> DNA
<213> Glycine max

<400> 12226

ctatacaagt agccgtttgg ttccaaaacc gccgagccag atggaaaacc aaacaattgg 60
agagagatta tgggtgtcctc aaagccaatt atgatgctct taagcttaac tttggcacc 120
tcaatcagga caacgaagcc ttacgaaagc aggtagaata ataatacaac atagtataat 180
attdagaaga attgatgttg agtetaatta attttaaatt aaaaagtata tgtgaatgtt 240
gagtgagaaa acaaacttca tgctgaagtg tcctagtaat ttttgttctg ggtcgcgcct 300
ttcaatctag aaactatgct cga 323

<210> 12227
<211> 375
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12227

acctctcctt cctcaggtgt acccaaaccc aatcacctgg ttcaagcagc actttctttc 60
tggttttggt ggcttgcttg catagctcgc attnttcttt tcaatttgaa ccttcacttg 120
ctcatgcaac ttcttcacat actcagcttt agcctgtgca tcctttgctt aaacatagca 180
atgttaggca taggcaacaa atcaagagga gtcaaaggat taaatccata cactatctca 240
aatggtgaac aattagttgt gctatggaca gcccgattat aagcaaacctc aacatgaggc 300
aaacagggct tccaagatat aagattttct ttaaaacagt cctaagcagt gtgcctaaag 360
tcctattgac tacct 375

<210> 12228
<211> 453
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12228

tattaaaaaa atttaattnt aatatatatt cagtataatg tttttacatt attaattaat 60
gagaaatcac gttagatata attatgactt tttaagtaat tataacaaaa tttagcaatt 120
ntttttttac aattttgcta ttcataacaa ttatatctct aagtgcacat ataaaaaac 180

gttagtacat tctattctaa ttaaatttca ttatagaaat gcaaaattag atgtgtaaaa 240
 ttagcaatgg tttttgctnt atttgcattt gatgtttgat atatgttatg agcatcaatc 300
 gataatatTT cacaagatga ttctcaagtt agaaatgtca ccatctctag tgctgcatga 360
 cgaanatccc ataaagaat ttcacattaa aatattagat gatcacaaaa ataattgac 420
 aatcaatgct tgatgacgac attacaaaaa gtt 453

<210> 12229
 <211> 258
 <212> DNA
 <213> Glycine max

<400> 12229
 tcatggtct gtaatgatca cacagtgatg acctataatg tattgccgcc acttcttaac 60
 ggcgttggtg atggctgcaa gctcgctac atatgttgag gatctcctag cttggtgaaa 120
 actgcttgct gaaaaaaacg attgggtgtc ctctctgaga tagcactgca cccatgccgg 180
 aacctgatgc atctatctcc acggtgaacg gtttggtgaa gtccggcagt gctaacaccg 240
 gagtgttagt gacaacat 258

<210> 12230
 <211> 327
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12230

cacgttgctt aanagnact atcatgcgaa aaagatactg tgtccgatgg gtatggatat 60
 cacaagattc atgcttgctt gaatgattgc acattgtaca gaatcaattt gaagaattgt 120
 ccaaatgccc tacgtgtggg gtatcacgta caaagtcaag atgataagga ttatagtagt 180
 gatgaaaact caaagaaggg cccctatag aaagtgttgt ggtatctgct gatcattcta 240
 aggtttaagc gtgtntgcta ataaagacga tgcttangac cttacatggc atgcatatgg 300
 gagaaaatgc gacacaatgg tccgtca 327

<210> 12231
 <211> 351
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12231

atattcgaca nagtatttctg gttatctatc aatattctct cttagttata agtcgaaagt 60
tgaaaagtgt gatactagct aatttaatta caatgattaa ttagattagt tgataattta 120
ataaataaat gtcaagtgc gtaaaatgat atatntaata tttctaatat atttaaattt 180
atttctaagt attaatcatc ttanaagtag gataacaatg ttntaaatta tgtattataa 240
aattntgcat agggtaagtt aacaaacagg ggaactntta ctttcctga ttcaatccaa 300
aaaaaatta tgcattggaac taaatangat aatattaatt tacgaaaaac a 351

<210> 12232

<211> 379

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12232

agctngccgc cacggagttt tccgactatg ctcttggtgt gtggaacaag ctacanaagg 60
agagagcaag anatgaagag ccaatggttg atacatggac ggagatgaat aagatcatgg 120
gaagcgggat gtgccggcta gttactcaag ggacttgaaa ttcaagctcc aaaaactaac 180
ccaaggcaac aagggggttg aggagtattc aaggaaatgg atgtgctcat gattcaagca 240
aatattgaag aagatgagga ggtaactatg gctcgatttc ttaatgggtt gactaatgat 300
atccgtgata ttgttgagct gcacgagttt gttgaaatgg atgatatgct tcacaaagca 360
atccaagtgg agcaacaat 379

<210> 12233

<211> 413

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12233

gagagattcc taagtattgg catgttccac ttgngctttt cccatatagc ttgcattccta 60
catagttaga atgtgaaaa ccaattatat ttaacgatgt acctttggga taccacaatc 120
caacattggt ggtgtcctta aggtacttaa tgatcatttt aacaactgct aagtgagatt 180

ccttaaagtt agcttgatag cttgcacaca agcaaacact aagcataata tttagttggc 240
 tttcaattaa gtaaaaaagt gagccaatca tacatctata ctttgattca tccactaatt 300
 tacctgtttc atccgaatca agataagtgg atgttgccat tggagttcat gtnctcttgc 360
 actcttccat gttgaatttc ataattagat ctatacagta tnnttggtga cat 413

<210> 12234
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12234

tggcactggc ttgtgttggc ntctgttaga tatttaaagt gctgctcccc ccctcctaaa 60
 caatacattg gcaataagct tggacttggc attacctctg tagccatttg gggtcacagc 120
 ttccatgcta agaactaaag ccagcgaaat tttgtgaact ctccggcagat ctttgccag 180
 gcttattggc agcaatatgg cgctgcaacc cattccactc aggttcacac tctttacgtt 240
 gctccggaat ccaaacttgt taatgatcat tgatgtaatg gatgggtgtag gacagaatag 300
 gctacagtgt gacacaagga tgtcaaagct cttggataca ctntgtgttt cacaaggagg 360
 tctttgacaa ttctgaatag aaacgattca ccttctgctt gcgcgcgcct catggaatcg 420
 tccgggggga gctcatg 437

<210> 12235
 <211> 350
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12235

gtttgtggag attcagtttg atcaanaggg gagaatntca ggagctgcta tcataacata 60
 tntgctcgaa cgatctctgt tctgtcaagt ctctgaccc gagagaaatt atcattgctt 120
 ttatatgctt tgcgctgcac cacaaggagg acattacttc catttcggat aactaattta 180
 ggccatata gttaagattt gcttccatgg tatgcgaatt tgatgtaaga ttaagatctg 240
 cttccaagaa agtaatgatt ttttctcttt caattaatac aagttagttc atgaataaga 300
 atattgcttg caagaaatta aagattggct gcatactcta ctattttctg 350

<210> 12236
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12236

tcagcgtctc gatattat aagcatgaat cggacctacg tgtgaaaatn tatgaccatt 60
 gaattatttg agagcttccg ttgttcaatt tcgagcgtct cgacatatta tgcgcctgaa 120
 tatgacttgc ctgtgaaggt tatgaccatt gaatatctca cagagcttcc gttattcaac 180
 ttcgagcttc tctatatgtg atccgcctaa atcagacatc cgagttaata gttatgagca 240
 attgaatttc tcacaagctt ctgtagttca atttcgagca tctcgatata ttatgcgcct 300
 gaatctgaca tctgtgtana aagttagtac cattntagtn ctatcggagc cttccgtttc 360
 aatttgagcg tctctatatg tgatgactcg aatcggacat cgagtagaag ttatgac 417

<210> 12237
 <211> 384
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12237

tcttagtttc agatgatgca catgggtgtg tagctacctc atgcactcct ctaatgacta 60
 tggcatcatt tctggcgcta aactgctggg agttggaagc catcttctca attaaatttc 120
 tggcttcagc aagagtcatt tctccaaggg ctccaccact ggcagcatct atcatacttc 180
 tctccatatt acagagtctt tcataaaaaat attggagaag aagctattct gaaatctgat 240
 ggtgggggca actggcacat attctcttaa atctctccca gtactcatac aggcctcttc 300
 cactaagttg tctaatacct gagatatcct tcttgatggc tgtggctctg gaagcangga 360
 atattttttc taagaatact ctct 384

<210> 12238
 <211> 349
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 12238

taccttgata tacttcagct gaattctgca nagacaactg atagcctgga tgaattgaac 60
tccactaate asgttaagat atagacatgg atgaaaatgc tgattctttt gtggatgaat 120
ctgttatgga aaaggttctc cacaagagga gtttgaggat gcgtaaatgc aaagagcttg 180
gcaggttttg ttgattttct tgaattttcc atttggatat tgcatttggc atcacatgtg 240
cttggaatgg aatagtaatg atcaagagtg tgtgactgtt ggtttanttt ttgtannatt 300
gttaattttt tttccattcc aatttcatat ccaaactatg agttagtct 349

<210> 12239

<211> 449

<212> DNA

<213> Glycine max

<400> 12239

tctctgatag ccaatgtgtg agtcccgctc agggtagttt cgatgaatac cggcctcgcc 60
gtgatcaaaa atgagaagga ggagttgatt cctactcggg tgctgaacag ttggagagtc 120
tgcattgact ataggaggca gaaccaggtt accaaagagg accattttcc cctgccattc 180
attgaccaga tgcttgaacg cctggtaagt aaatctcact actgtttcct tgatggtttt 240
tctagtata tgcaaatcac tattgtcctc aaggatcatg acaagaccac attcacctgc 300
cccttcagca cttttgccta taagaagatg ccttatggcc tgtgcaatgc ccctgggtacc 360
ttacagcggg gcattgatcaa tatatttagt gattctttat aacattttcct agaggtgttt 420
atggatgata tcaactgtata tggatcgctc 449

<210> 12240

<211> 331

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12240

gctctgatac cactngctaa acaagtgacc tcagatatct taagaagggg gggttgaatt 60
aatatattac aaattatttc cccaattaaa attctattta actttctatt caagttataa 120
attcccttaa taatgaatat cttagatgtt gattcaaata gaacaatctg aatatgaata 180
taaacataa taaataaagg agtttaatgg aagagaaagt gcacactcag atttatactg 240

tgctggccac acccttgtgc ctacgtccag tccccaaagca acccgcttga gagttcatta 300
tcttgaatt cctttacaag ttetaacaca c 331

<210> 12241
<211> 468
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12241

tgctccgaaa ctacgtgtcg agtctgtggc gatgagattg tatacatgga aaatgngag 60
ctgtntgtgg cttgtcatgt gtgtagattt cctgtttgtc gaccgtgtta tgaatatgag 120
aggagtgaag ggaaccagag ctgtccacaa tgcaacactc gctataagcg ccacaaaggt 180
tagttcagct ctttaagctt tgtgttatgt attaattgat taggacaaaa catagatgca 240
gttccttaca tgcattttgg gatgtttctca gattataaga attggagttt tatcttgata 300
atctgggtaa taaatgttta cattaatgt ccaagtgggt ttgggaccac cgtgtttctg 360
accaaggata aaatngaaaa taaaaaatc cgtcagtttg aagctgaaat tctaattctg 420
attagagaat aacaaaacac ctaaagaaat gcattctagt atgataac 468

<210> 12242
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12242

agtgttatta tgtttataat atatgtatgt cttgagagna ttatgataac aaaattaatt 60
gaaaatcaat tagagaacat caacccttca aaattgtgtc ctctcatagt tgaagaanaa 120
aaagatgtca catctaatta ttcattnttt aagaaaagta catgtgattg atataattaa 180
tataatttat ataattctaa ttatagaaat tgaaaccaat tggatgatc actataagat 240
aagagcacat angacaagga atgctctgat actaaatgga gtatttaatt taatgcacat 300
tcttttgaat aatttcaatt attatcttta tataagatat atggaatctt tgtattataa 360
aacttctata ggtgctgtgt tcgaggatgt ntctttacaa tata 404

<210> 12243
 <211> 280
 <212> DNA
 <213> Glycine max

<400> 12243

ctgagagaac cactccaagt ctagatactt gggatttctc acattcttca caacatatat 60
 tatectaagc tcattcttct tactatcacc cataaacctt gtatcaagct tgggtgagaac 120
 agcttgagag cactgaaatt ctgataccag gggacagatg tcgtacagga tgtcacgaca 180
 tcacgcttta gaacatgcag tttatgtgtg tccgtatgaa cagattaaac aagtaataac 240
 acaagagaat tggtaccag ttcggtgcac ctcacctaca 280

<210> 12244
 <211> 397
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12244

actcggagat ctgattcagg cgcataatat atcgagacgc tctgaaatga acaacggaag 60
 ctctcgagaa attccaatgg tcattacctt taactcggag tctgatttag gcgcataata 120
 tatcaagacg ctcgaaattg aacaacggaa gctctctaga aattcaaatg gtcataactt 180
 ntcactccga gttcgattca agtgcattgat atatccagac gctcgaaatt gaacaataga 240
 agctctcgag aaattcaaat ggccataacc tttaactcgg aggtccgatt taggcgcata 300
 atatatcgag acgctcgaaa tttaacaatg gaagctcttg ggcaattcca atgggtcataa 360
 ctattaactc ggacgtccga ttcgagtgc aatatata 397

<210> 12245
 <211> 338
 <212> DNA
 <213> Glycine max

<400> 12245

tgaatcggat gttcgattgt gtcccatagg atatctagac gctcgttacc gaaatcggaa 60
 gctctaagaa aagacaaacg acaataactt taaactagga tgtccgattg cgccctgcaa 120
 gatattccga cgctcgaaat tgagaaccga agctctcaga taagtcaaac gacaatcact 180

gttaactctg atgtcctatt gagccctgta atatatcgag acgctcgta ttgaaaactg 240
 aagctctaag ataagtctaa ctacaataac ttttgactcg gatgttcgat tgagtcccg 300
 attatatcta gactctcgta attgataaca gaagctct 338

<210> 12246
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12246

ctgctatatt tctctgttgt ttctggttca tgcaggagtt attaagctgt gacttacttt 60
 tctctgtatg tgaaattgca gacgggcatt ctgggacaag aggatttcac acgatgtcaa 120
 catatatgct ctgggtgagg tatgctctgt aaatcaaac ctccaatac ttgtttcaat 180
 atgcttcgag gagcattgat aattattgat cctcgcaact ctaaaattat gctactaata 240
 tgaacttaca ggatatgtct tcaaaatcac tgggtggtgt gacaaacaag gattgccaat 300
 gaagcatgga gtgctaacga cctgctgtgt tcatcttttg ctccacagag gtagaactgt 360
 natgaagcat cgatcttcaa attgtgatca tttatcatat tataatgtga catcatctgc 420
 cacatttggt 430

<210> 12247
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12247

ctgcagctag tagacattca caccatgaat ccttattatt actacaccan aattcttcat 60
 gaatgatgaa ttccataaca ttaataggat acaaactntg tttattctta taactcataa 120
 aacaattata tatatgcttg gaattgattt aaaaactctt aagaaaacac ttagcataat 180
 aaaacactga acatcagcag ttttgaaata ataataatga taaaatctaa gtacattttg 240
 aaacaaatat attataataa taagataaaa naatctaata tattagcaag aattgaatct 300
 canaatggtg agtctataaa ataaataaga gaggtcatat ntatantttc aaataatcat 360
 aattaagtac gtagttataa ttgattgaat gtgggggttt ttttagtacg gataacatat 420

naaaatagtg ttttttttaa

440

<210> 12248
<211> 447
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12248

gctacttcaa catctgcctg cagntatata atattgttat atgtatttat ttggatgaac 60
atacactcat taatgcataa ttaagaatta gacctgggct gcagtgatc cttttacttc 120
gtataatct ccttctcaca gcccttgatt gtctatgtta acttctttgc ctctgagact 180
gtttaactct tcaacaggcc attgcaccaa ttgtctccca gtaaaatcga gccacacagt 240
tcgtggaatc gcttaattat tntaccagac acatacatgc atattacaat tcttttaatt 300
tgtataagga taaaaaata aaacacttat agctgaatgc canacanaaa acatganagg 360
gagttagaga ttcagaatcg agcanagatt gagtaaatct agaaatatct ctctcaatcc 420
aggaaaaaaa atattgaana catatgt 447

<210> 12249
<211> 338
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12249

acactngtaa caacactttg cttgtcctan attatgtaga ttntccccctt agatgtacag 60
atgataaanac ttagtgaagt cacgaacaag atcacgggtga ccttcaactt agtgaagcct 120
acactattag aaattacact ttcaacatcg gttattagga cattctacat cagttctaaa 180
accgatgtta aaagtgccgg tggtgaatgt atcatcggtta agatcggttn tgaaaaatcg 240
atgttaacat aaatacaata acattgggtg tctaaatacc caatgttaaa cacaatgaac 300
tacaacaaaa aaagtgtatg cgtgatgaaa gttgacat 338

<210> 12250
<211> 368
<212> DNA
<213> Glycine max

<400> 12250

tcacaaagag aatcatcttg atatgataac tctggaagtt ctcttacaag gctatgcttt 60
tgaagcgttg agattaacct caagctagca tgaccaagct tcttatgtca aacccaataa 120
tgctctttga ctgagagtag gcatgaaact tttggactag acagatcacc aagtttaate 180
ttatacagat ttcttgtct cttagcctag aagagtgaag agttttcctt gttctcaatg 240
atacacatat ccttggttaa agtgacattg tatccactat cacataattt acttatgcgt 300
aagcaaatat gcttcaaccc tttaacaagc aaaacattat ctatgaagga taaggaggaa 360
tacatact 368

<210> 12251

<211> 308

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12251

ntngactgtt cactaacacc aagaaaaatg cttttttctt ctttgtcatc tagctntctt 60
ctcttgtgat ccggaatgtg agcataggca acacacccaa aaatttggaa atgatctact 120
gctggctctt ccccgctcca tgcttctctt ggtgtcatat ttgaaacaac aagtgtggga 180
cttctattca aaatatgaat gctccagttg acagcttcag gctagaaagt ttggaaact 240
ccactccttg tcaaaatact ccgcaccatg ttcttaattg tacaattttt cctctcgcac 300
acaccatt 308

<210> 12252

<211> 175

<212> DNA

<213> Glycine max

<400> 12252

agagattgaa gccttcattt tgtactgtct tcgtgcgaat cacttttctc tcttgataaa 60
tagtatttcg taaatcccaa cggtagaagt gtttaccatt gaatcgggaa ccagggtgcc 120
aaatttcatg acgatecaat gggttatgat tccgggatcg tagttttact ggaca 175

<210> 12253

<211> 476

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12253

agcttgcaat tacaaatgag gggcataaca aaaagtctat tatactacaa aggaagcaaa 60
aaccaaacac aatagtgtcc gtaaaaaatg gttgaatttc caatggcaag tatagaacaa 120
tttattctcg tttttttttt tcttttgaa tacttcaaat ttcattttgt ctcggttaat 180
tytgggaaag caatattact atggtgttgg cacattttca tcttgcaatt gtggaagcac 240
aagtaggate atctttgttt gaccaacttt ctttaattcg acaagcctgc attggtcttt 300
caatttgac tacttttgcg gcttccttct ccaattgcct acaatatctt ccaaactgtt 360
ctacaccaac ctgaagtcta aaatctatgc caaatagaaa gctcatctcg aacctgttta 420
attcagatgt gctcactcct ccaacttttg catagtangc attgtgttag aatctg 476

<210> 12254
<211> 426
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12254

agcttgaaat acagaataga ggctctgagc ttaatcttac gataataact ttttactcgg 60
atgtccgatt gtgtcccgta gtatatcgag acgctcgaaa ttcaaaatag aagctctgag 120
caaaatcaat cgacaataac attttactcg ggtgtccgat tgtctcccgat agtatatcga 180
gacgcttgat attcaaaata gaagctctga gcaaaatcta acgacaataa ctttttactc 240
ggatgtccga ttgtgtcccg ctgtatatcg agacgctcga aactcagaac agaagctctg 300
agcaaaatca atcgacaata actttttact cggtatgtccg attgtgtcct gatgtatata 360
gagacgcttg anattcagaa tagaagctct gagcaatata aaacgacaat aactntttac 420
tcggat 426

<210> 12255
<211> 470
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 12255

gaattcatta atcttctttt ccaactaaaa accattgtga gggggaagca tatgacgaaa 60
gtaagaatc tttttatttg acttcccatt taggtaaaca aaatgggtag tcaaagttat 120
gaaaccctta gtattaatag atgtccataa atcagaagtt aaacagatcc tgcagggaat 180
agcacacaac agttctttac tgatggtttt ctctctctca tatattctca acatattagt 240
cttaaaagta tttctagaaa ttggttaatt gaggacacaa ataacttacc aaagcctgaa 300
actctggata cttaacaaaa atgaagggca aattacgect aatcattaga ttacacaaca 360
attcgcgtgc catcatttga tctatctctt tggecttaaa ctctccttgc atgtctaana 420
tcatttgact catatcttnc aaatttttta tctcacatct cccattatga 470

<210> 12256

<211> 445

<212> DNA

<213> Glycine max

<400> 12256

attcaacgac atactttatt ttgatgtctg attgagtcctg aatatatcga gacgctcgaa 60
attgaatggt gatggctggt gcaaatgaa acgacaataa ctttttactc tgatgtctga 120
ttgagtcctg taatatatcg agacgctcga aattgaatct tgatgtctctg agcaaattca 180
aacgacaata actttttact cggatgtctg attgagtcct gtaatatatc gagacgctcg 240
aaatttaata cgaaagctat gagcaaattc aaacgacaat aattttttac tcggatgtct 300
gattgagtct cgtaatatat cgacacgctc gaaattgaat gttgatgtctc tggtcgattt 360
caaacgacaa taatttttgc gccaacattg cagaattttt tacaacactt ggtcgataat 420
atttctttat ggtagacgaa gttttt 445

<210> 12257

<211> 472

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12257

agcttaggct ttgaaaaatg tctaagttag tttattttga tgtcagaaga acgatgctgg 60
aatagtcatt gtctccttgt atgttgatga ctactttatg acaagaaagt caaaagagct 120

gattgaagaa tttaaaggag gaatgaaaga agcctttgaa atgactaatc ttggaaaaat 180
gtcatttttc ctttgtatgc aggtgcaaca agatagaggt gaagtctttg taagtcaaga 240
aaaatatgca aaggaaattc atagaaagtt caagatggag gaatgcaagc caattgcaac 300
gccaatgaat caaaagtga aattcagcaa tgaagatgga gctganaagg ttgatgaaaa 360
attgtacagg agcttaatag gatgtctgat gtatttgact gcaaccaggc cagacattac 420
ctatgcagta ngcttgttgt cacgatatat gcactgtgct agtgagattc at 472

<210> 12258
<211> 521
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 12258

agcttatgaa tgatatgaat cgaactcatt ttctatatc aattttctaat tataattatt 60
atccatactt tattttatna tttattttat caagaaacat ttaatgtgaa ttttaattaat 120
taaaacacgt cacttagtaa atcattaaaa tttatacatt aattatattt ttgtattaaa 180
ttaaataata taataatgaa ggaaaaatcc ctcgagaaaa acataattta tagaaatgaa 240
ccactcctct cacattaaag ttctaccaac acatgtatgg ggcgtataca aatattgttt 300
ttatcaggcg tatgagaatg gttctatagt acccttttga gatectatcc attgttatcc 360
atattgatga tccatttttg tgctcaagag ctactcatat tttttatact agtaataggt 420
ataattntta ttgtataaa aatactcata caatgttaaa ttgggttcta gaatactttt 480
taatgttatt aatataatat ntataaatag gtacatttgt c 521

<210> 12259
<211> 590
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 12259

agcttgcttc tacacttaag tgtttggggt gtagttttat aaaatgttgg ggggagttaa 60
aacaaaatgg gcttttcaaa taaaatccg acccacttta agtgactcag tacaaaaaca 120
ttgcatttca ttaagcttgc gtttagtgat cacaatccat atgttggatg catgtgtata 180

gtgcacaaga cttactaagc tcattggacg ataggtcctt tggatgcata tcaatgtgtt 240
gagaccttcc acataaattt gaaacttcat tccacaagaa gcatgccaaag caaactctta 300
gcgagattaa cctatcctca gtaaagggtt ttgtaaataa ataaacaagt tgatctcctg 360
tagatacaaa atgtaattcc atagtaccct tctaagtgtg atcccttatg aaatgggtgtt 420
ttatttctat atgtttggct catgaatgca tgatangatt nttagaaaga tcaatagcaa 480
caatattatc acaaaggata gtaatggtag tctcanatag gttatagtcg tcaagctgat 540
gtttaatcca caggagttga aaacaaaaac atgcagntga tatatactct 590

<210> 12260
<211> 470
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 12260

gctttgaacc attaaatgac aataactttt attctgatgn tganngaggn ctgtaatata 60
acgagacact cgaaattgaa tgttgaacct ctgagcaaat tcaaacgaca ataactttct 120
tctcggatgt ttgattgaga ctctgaatat atcgagacgc tcgaagtga atgtttaagc 180
tttgagctaa ttcaaagcac aataactttt tactcggatg cctgattgag tcccgtgata 240
taacgagaca ctcgaaattg aatgttgaac ctctgagcta attcaaagca caataacttt 300
tttctcagat gtttgattga gactcgtaat atatcgagac gctcgaagtt gaatgttgaa 360
gctttgaact aattcaaacg acaataactt ttactcggg tgtcagattg aggcccgcat 420
atatcgagac gctcgaaatt gaatgttgaa gctctgagcc aattcaaacg 470

<210> 12261
<211> 607
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 12261

atccttaagt cacctgcggc atgcaagctt cataaccatt accacaccac cctactacat 60
ttctaccttt agtcttggtc ttagagatgg cttgtgaaac caagtcattg ttgggttatgt 120
ttcttgtttt cttgggtgct aattgcatgc aacattgtgt ccacgggggtg tctcaagtgc 180

cttgcctttt tatcttttggg gactctatgt ctgatagtgg aaacaacaat gaacttccaa 240
 ccacttcaaa atctaatttc agaccatatg ggatcgactt tccatttagga ccaactggga 300
 gatataccaa tggccgaaca gaaattgaca taatcagtaa catttcttta cactaattaa 360
 gatcctcttg ttttctctta aagtatatat ttagcattca gtacagcaat taaagattnt 420
 aaattcaaac ctcattatga attgttttga gttgtgatgg actaccttct gttaattaac 480
 tcancaattt tttagtagtg gtgaagaat annaactata tttatntata gagccaagtg 540
 tcctttctct tgctctatac atttttgtca agctcacact agagttctac aatngcagct 600
 caatttc 607

<210> 12262
 <211> 555
 <212> DNA
 <213> Glycine max

<400> 12262
 ttttgaatca tgaatcataa tttatcgaat tctaagataa aaaaacatca aaaatagctt 60
 ttaatatata tataaatgat aatgatgtga atactcaatg tataatttaa actaaaaaat 120
 cgccgtaagt ctcacaaaaa gaaatcacia ctcatactct acttgatatg tgaaaccttt 180
 aatttaaaga taaaagaaaa gcaacggaca accaaatata gtgcataaag agagagtgac 240
 agtgtgaac ccaattttaga aaataaaata gatatctgaa tatcaagtgt gttgtgtaaaa 300
 gatgaccttc attcctttta ttaacagctt agctataaaa catttcattt ctttataagt 360
 agtaaaattaa agaaaaaaaa ataaaaatcat gaatgttgac tgtgcgtcta tcgtgatcaa 420
 acatgccatc atcatgatcc aattctagta tctggatcat cacatcatga tgacagtcaa 480
 tattgtgatt caatctgaat gaagatccag tatatgttct tgtgactaaa caatttctac 540
 taaaacccaa ctctg 555

<210> 12263
 <211> 550
 <212> DNA
 <213> Glycine max

<400> 12263
 gtttttgttg tgttactatt ccacatgtta aaccttttca aaacatctaa aatatacttc 60

ttttgggtgca tgaaaattcc ctgttcactg tatgcaaact ccaatcctag aaagtatgat 120
 aatgttccca ggtctatcat ttcaaattcc ttcttcaa atctgttttag tgagtcaatc 180
 ccaattgagc tactcctagt aagtgataga tcatccacat atagacaagt gatagatcaa 240
 tccaattga gctactecta gaaagtatga taatgttccc gctccttcag cttgcataac 300
 tctattgtct gcaaacctta cattactctt ctgcattgca tcaaaattga caagccaatc 360
 cctatgtcca gtcatatggt ttgagcatcc agaactctatg taccaagttt cattattatg 420
 agattctgaa tcggtaatca tcatcagcat caagggttgt tcttcaaagt ctgcttcatt 480
 ctcttctttg gccatatgtg cttgataatc attgtgtgat tgattccccc tgtgatctat 540
 gctacttggc 550

<210> 12264
 <211> 540
 <212> DNA
 <213> Glycine max

<400> 12264
 tttcgtgaaa ttgaaatggt cataaacatt cactctgatg tccgattcag gcgcctcata 60
 tatcgagacg ctcgaaattc aacaacggaa gctctcgaga aattaaaatt ggcatatact 120
 tccacttgga tgtccgattc aagcacatca catatggaga cgctcgaaat tgaagcacgg 180
 aagctcttga gaaattgaaa ttgtcataac ttttcaactg gatgtccgat tcaggcacat 240
 catttatga gatgctcgaa attgaacaac ggaagctctc gagaaattca aatggtcata 300
 agttatcaca cggagggtcg attcaggaa atcacatatt gagacgctcg aaattgaaca 360
 acggaagctc tcgagaaatt caaatggtca taagttatca cacggaggtc cgattcagga 420
 acatcacata tcgagacgct cgaaattgaa caacggaagc tctcgagaaa ttgaaatggt 480
 cataaccctt cacacggatg tccgattcag gcgcatatat atcgagacgc tcgaaattga 540

<210> 12265
 <211> 499
 <212> DNA
 <213> Glycine max

<400> 12265
 agcttgatga atctggaatg acacatgcct atcctgttat attatgggtc agccctgtgc 60

cctgagacac catgatatgc tgactcactg cgacacaaca tacgaccggg atacttgatt 120
 cctacaagga tcatggccta atgaataatg tgaattgatt accttgcttt taactcagcg 180
 accgcgatat agccctttac ctcttccctt cctggagcat atgcgagaca ggctaccgga 240
 accagctttc tattgctatc tagatggata ctccgggtat aatcaaattc ttgttaagat 300
 aggggatcaa gagaaaaaac acttcacttg cctctttgga ctttgcaatg caccagccac 360
 attccaaaagg tgcattgaatg ccattctttt tgacctggta gaaaaatgca tagagggtgtt 420
 tatgcatgat ttctctgtat taagagattc attcatgcca tgtctcatca gctttgtgaag 480
 tcctagaaaag atgcattga 499

<210> 12266
 <211> 524
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12266

agcttttaggc tcaatggccc cacatagaga atggcctagg tgtagccatg acgttcaaaag 60
 gtatgggtgga gcattaacat tatcagtga ggcctgacac ttatggcatt tcctcacatg 120
 gatgcaacaa ttgctctcca tagtgagcta gtaataccca gttctcagaa ttttctaggc 180
 catggcatgt ccattggatg gcgttccaaa ggatccttta tgcacctcta ctagaatttg 240
 ctccagccctt ttagcatcca tacaccgaag tagtaccatg tcatggttat tcttgatatg 300
 gatattccca ctcangaaga agtcggtcgc caaccttcac aacattcttt tategttgtc 360
 agaggcctcc cgtgggcatt ccttgtcttc gatgtatcgn ttgatattga agtaccaagg 420
 cttaccatct ttctctcttt ctattaagca acaatgtgca agctcatcac gacatctgaa 480
 ttcaatgtac gacaaatctc catgcgggct tancaggaac atgg 524

<210> 12267
 <211> 371
 <212> DNA
 <213> Glycine max
 <400> 12267

tagctttgag caaattcaaa tgacaataac ttttgattct gatgtccgat agagtcccg 60

attatatcga gatgctccta attgaaaata gaagctccga gccaatcaa acaacaataa 120
 ctgttgactc ggatgtccga ttgtgtcccg caatatatcg agacgctcga aattgaacac 180
 tgaagcactg agaaaaatcc aacgactata catatttact cggatgtgcg ataaggggccc 240
 ataaacatc gaaacactcg taattgaaaa cagaagctct gagcgaattc gaacgacaat 300
 aacctattga actcgggtgt cgcaagtgag tccccgaata aatatctaga cgcttagaga 360
 ttgaaataca g 371

<210> 12268
 <211> 515
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12268

agcttgtgtt gttgtgtgct gtaaaagatg ttcnctaata ctaacatcct ggaccaccac 60
 ggtgtatctc acagactttg actgcagtta tgggtcaaact aatccatggc tctctgcttc 120
 tgggtacaga ttacagatta cacctgtttc tggtccttcc attaatgct gaagggttat 180
 ttctactcac taatttcctt tgattaagtt ttataaattt gaattttaac aattaaattt 240
 aatgtatttc gaaatgagta cattttaata acaataagaa taatgatata ttagtaataa 300
 aatttcttaa cttaatatata tttattttca aatatatata tatatatata tatatatata 360
 tatatatata tatatatata tatataaaat aaaatatgtc ttagctttaa tattaccttt 420
 taaattatat aatttactta tatatggtat aatataaaaa tgttatgaga tagttaatta 480
 tccctttcat agattataaa ctctatcaaa taact 515

<210> 12269
 <211> 363
 <212> DNA
 <213> Glycine max
 <400> 12269

agcttcaaca ttcaatttcg agcatctcga tttattttctg gactcagtca gacatccgag 60
 taaaaagtta ttgtcgtttg aattagctca gagcttcaaa attcaatttc gatcgctctg 120
 atatattacg ggactcaatc agacatctga gtaaaaagtt attgtcgttt gaatttgctg 180
 agagcttcaa cattccattt cgatcgcttt aatatattac ggatctcaat cagacatccg 240

agtaaaaagt tattgtcggt tgaattagct cagagggtca gaattcaatt tggagcggt 300
 cgatagatta cgggactcaa ttagacatcc gagaaaaaat tattgggggt tgaatatct 360
 cac 363

<210> 12270
 <211> 449
 <212> DNA
 <213> Glycine max

<400> 12270
 gctctgcttc tgaaagagat tggattttct caacttgaat cagtttatca tcattcttga 60
 tcttgccaaa ggcaacaat ttacatctat tgtccctcaa aacattaata aggttattaa 120
 ctgaatatgg taaatttaat aaaagaaata ctgtagttaa aaaaacacat aaaccttcaa 180
 gtgtggtgtg cagtgcataa tataagaaat ttatgaaatt gcaaaaatcc ttatctaaac 240
 aaccagatac aaagaaaatt ttaccataa agcataaaat gaaaattacc agagaagaac 300
 caatgagcca tgcatatata aaaaaaaac agagttttga cagaaaggga aaatgaataa 360
 atgaatctta ctctgtaat cttttgcgga gcatgtaacg caaatatgca tcagttccat 420
 atgggctgat gcccatatat ttacacata 449

<210> 12271
 <211> 519
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12271

agcttcttag ttccagatga tgcagatggg tttgtatcta cctcatgcac tctctaatg 60
 actatggcat catttctggc gctaaactgc tgggagttgg aggccatctt ctcaattaaa 120
 tttctggctt cagcatgggt catgaatcca atggctccac cactggcagc atctatcata 180
 cttctctcca tattattgag tcttcataa aaatattgga gaagaagctg ttttgaatc 240
 tgatggtggg ggcaactgac acatattttc ttaaactctc cccagtactc atacaagctc 300
 tctccactga gttgactaat acctgagata tcttctctga tggctgcggg cctggaagca 360
 tggaaaattc ctctaagaa tactctctta aggtcatcct agctcgtgat ggaccttga 420

gcaaagtatt acagccagac cattgccact cccctctaataa aatgaagaaa agccttcaca 480
aatatgtgat cctnctggac atctggnggt ttcattggtg 519

<210> 12272
<211> 503
<212> DNA
<213> Glycine max

<400> 12272

agctttgatg caacatttgg agaggtgaat tttatttcta gatgatgcgc tccatgagag 60
gttgatcaa atggagaata cagatcataa tgaagaagaa agggaggagaa gaggggaatga 120
tggtgttccct agacaaaacc gaattgatgg tattaaactc aacattcctc catttaaagg 180
aaagaatgat ccggaggcct acttggagtg ggagatgaaa atagagcatg tatttctcatg 240
caacaactga ggaggacaaa aaggtgaagc ttgccgccac ggaattttcc gactatgctc 300
ttgtgtggtg gaacaagcta caaaaggaga gagcaagaaa tgaagagcca atggttgata 360
catggacgga gatgaaaaag atcatgagga agcggatagt gccggctagt tactcaaggg 420
acttgaaatt caagctccag aaactaacc aaggcaacaa gggggttgag gattatttca 480
aggaaatgga tttgtctcatg att 503

<210> 12273
<211> 518
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12273

gcttgggtgg actntttggt ctaacttaca cagcatcact gttatgttat tttccataat 60
tcttaagtgc tcaatattta aggtgtcga aattaattct ctgaaaaact ggctaagttc 120
aacaatggc ttccaaataa gttttggtta tgagtcaaat gcaattggaa gcaaccgttg 180
catgaaaaca tgacaatcat gacttttcat tccatgaatt tttctcttgt taagatccac 240
acaccgacct aaattggagg catagccatc tggtaacttt agttctttga cccatttaag 300
aacagcgagt ctctgggatt tggtcattgc ataagctgcc tttggtttaa agaactgtc 360
acgaccaaca tctaccagct caagctcttt ccaattacat atttctgcta agtccattcg 420
agcattgtgt gtatccttgc tttttccatt gatgtccatc acaatgttaa agacattcat 480

aaacacattt atttctgtgt gcatgacatc aatgttat

518

<210> 12274
<211> 562
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12274

gcttgetaac ctatggaagc tcttaatatc tccattctt tttggggtgg gccattctgg 60
atggctttga ttttcttatg gtccacttgg acccatttct accaactaca aaccttaaaa 120
acactatatt atctacacaa aaagtacact tctctatatt tgcatagagg gtgtttttcc 180
taaggactga aagaacttgc ctgagatgtt ctaagtgatc atctaggctc ctactgtaca 240
ctaaaaatc atcaaaataa acaactacaa aaatctactt atgaaatccc ttaagacatg 300
atgcataagc ctcataaagg tgcttgggtgc attagtgagc ccaaaaggca tcactagcca 360
ttcatacaaa tcgaacttgg tcttgaaagc ggntttccac tcataccct ttttcatctt 420
gatttgggtga taccacttt taagatcaat ttgaaaaga tattggccca tgcaactcat 480
caagcgaatc atcaagtcta ggaatggggt gcctatactt tacaatgatg atgttgatgg 540
ccttgcaatc tgtacacatt ct 562

<210> 12275
<211> 559
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12275

agcttatatg agcttaaaat gtaatctttt atggttttct anattaacaa ttataagaaa 60
ccaataagat cttgaaatat atgattctca caaataatag ataaatagtg catctctttg 120
tccatagtat gacttgtctc cgatgcactt taattcctag gaagatgaga gaaccaagat 180
tttgctttca tgattattct ttctgtctct ccacgtttgt gataggtagg gattagagag 240
aacatttttt tgtcaagaag aggaccttat ttcacgttag tgtgtattag tgccttttat 300
aaccactact cacatcaagt agcagttatc tttagaaact tgtgctattc aaccaaatc 360
aatttacgcc ttaattatta tttatttatt tattagtccc tacataagtc acatgtctct 420

<210> 12278
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12278

```

agcttcaaca tcagaccact tccagttttc tggaactact tcacatggat ttgatggggc 60
ctatgcaagt tgaaagcctt ggaggaaaga ggtatgccta tgttgttggt gatgatttct 120
ccagatttac ctgngtaaac tttatcagag agaaatcaga aacctttgaa gtattcaaag 180
agttgagctt aagacttcaa agagagaaaag actgtgtcat caagagaatc aggagtgacc 240
atggcagaga atttgaaaac agcagggttc ctgaattctg cacatctgaa ggcacactc 300
atgagttctc tgcagccatt acaccacaac agaatgggat agttgagagg aaaaacagga 360
ccttgcaaga ggctgctcgg gtcatgcttc atgccaaga acttcctat aatctctggg 420
ctg 423
  
```

<210> 12279
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12279

```

gggcaattnt aagggtgtaa ttctcgcatt gaantgatat aagtttaatt aaaaacatct 60
aagaaaatga agggaaactc ttttctaatt aagacaaaaa taaataaata atcttgcgag 120
acaatatata atatgctaaa attataaata gcttaccag cagccaacaa aaacattaaa 180
ttcgaacgca aatttaatta ggagaaaata aaattttctc tgtaaaacaa taacctttag 240
atgggggttaa ttaatgtcca ccaaaaaaaaa cagtgtatat tcatatgaaa atatacttc 300
cgtgttctca tatacaagt acataacctt cataaaaaaa ttaatcatta aaattttcaa 360
caattcattt agatttttta gatttgttta taaaattatt agcacctcat ttgcttcatt 420
tctttctacc taat 434
  
```

<210> 12280
 <211> 438

<212> DNA
<213> Glycine max

<400> 12280

```
gtcccttttc tgcgtgtttc gtgttctttg ctttttttct ctattatttt acttttgatc 60
attgtcagtg tgaaaagttt ttacagaagt gccttattaa cataataact aagggtttttg 120
atttgctgtg atttgaaagg tttcaagttt caacagttct ttgaactatt tctgtgtgtt 180
gaagtgatag tttatctata actgcaggat atgaatatcc gtgaagcagt aatgagggcc 240
gagaaagctt taaagataag caaacgcaag gactactaca aaattttggg aatttcaaaa 300
acagcttcgg ctgctgatat aaaacgtgcc tacaagaaac tcgccttaca atggcatcca 360
gataagaacg tcgacaagag ggaagaagca gaggctaaat tccgagaaat tgctgctgct 420
tatgaggtct attattat 438
```

<210> 12281
<211> 436
<212> DNA
<213> Glycine max

<400> 12281

```
ctcagcttca cattcaattt cgagcgtctc gatatatgac ggtactcaac cagacatccg 60
agtaaaaagt taatttcggt tgaattggct cagagcttca acattcaatt ttgagggctc 120
cgatatattg cgggactcaa tcagacatcc gagtaaaacg ttattgtcgt ttgaattggc 180
tcggagcttc aacattcaat ttcgagcgtc ccgatatatg acgggactca atcagacatc 240
cyagtaaaat gttattgtcg tttgaattgg ctcagagctt caacattcaa ttctgagggt 300
ctcgatatat tacgggactc aatcagacat ccgagtaaaa agttattgtc gtttgaattg 360
gctcagaggt tcaacattca atttcgagcg tctagatata ttacgggact caatcagaca 420
tccgagtaaa acgtta 436
```

<210> 12282
<211> 439
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12282

tataaaaactc aagctgggct agttatggcg ttatgtctctt tacttttattt gttgccctta 60
 agttactttgc gcaaccttgt tcatcttcat gttgtgaaag aaattgggggt acatattcat 120
 gtatccattc tttaaagaga aacaagatgg cactacatag agctgaagat ttagtattttg 180
 ttcatagcaa cctacgactt ctctcaagga atactccaca atatcatcaa gaggaaacta 240
 aaatgtggga tgtaactgga gatgattttg aatcacttga tgattgtgggt attcttgaaa 300
 ttgctagatt gtcttttagat gaaccagagt tagagggtgt ctttttcaat gatgattgtc 360
 agtttgtgaa attcttgaag acttgaagtt gctaattcat catcttctn ntataatttt 420
 nntgtaagaa acaaagcgt 439

<210> 12283
 <211> 431
 <212> DNA
 <213> Glycine max

<400> 12283
 tcgaatcacg gggatagatt tgccacaacc tggtttaatg ccacgacaga ggggtgctcga 60
 gacagggcgt aagctcgcaa attattgcaa gcgtttcaat gttccatttg agttcaatgc 120
 tatggcacag agatgggaca ccatcaaagt ggacgacctc aagatacaaa ggaatgaatt 180
 tgtggctgtg aactgcatgt ttcagtttga gcactctgta gacgagactg tgggtgttgaa 240
 taatcccagg gatgctgttt tgagattgat taagaatgca aatcctgaca tattttgtgca 300
 tggcattgtc aacggatcct atgatgtacc attctttgtg tcatggttcc gggaggctct 360
 ctttcattac actgcattgt ttgacatgct tgacaccaac gttgctcgca agatcccatg 420
 aggttgatgt t 431

<210> 12284
 <211> 165
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12284

agctntgctt ccacaattgg tgtaggaggg cgcttcgacc catttggtga aataatctat 60
 cgccacgagg atgaagtgat gaccgttcga agccttgggt ttgatggccc ctatgacatc 120
 tataccccat atggaaaaag gccaaaggagc gcgacatgac gttta 165

<210> 12285
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12285

tattttgttt gcaatatatta tgttgtgtgt ggattgattt ctatttagaa taaagttag 60
 accaattgga aataggcatg actgagatca cattgcatgt aactttcatg ttgcttatcc 120
 atattgacct atgtcattga gtgtactaat gtagtagtca ttggggctca gttacattta 180
 ttgatgcaat cctccctagg aagggaccaa tcactagaac catgagcaag aggcctcaag 240
 aagattgggc tagagctgct gaagaaggcc ctagggttct catgaacctt agggtagatt 300
 tctgagccca tgggccaaagg ttgggtccaa ttatctttgt acatattaga ctaggatgtc 360
 attatatttg gtccttgat ttagggctcc atattgtagg tagggtaccc tagaaatata 420
 ggattnttca gccctt 436

<210> 12286
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12286

agcttgaagc atgcaattnt tccagcttac tcttttcca actcatcaat ggcaggggct 60
 atcatcctgt atggaccaca ccattggtgca atgggggtctc acttgcaatg acaatgttat 120
 tccagcttga atctgtcaca gctcgcactg caaaataggg ccagccactt actactacct 180
 agattgctnt atggcaaaaat aaaaatcata aattcaacac aaggtaaagg atattcaact 240
 attcatcact caaggatata atatttgggt gcaaaatgtt aaatgaccga tatgagtttt 300
 gtacaatgat tccccccgcc cccctataaa gagtttttat attatcatcc aataataatc 360
 taacatttat gataagtttg ttaactttta cattaagtcc ttagaagtta aactaatttc 420
 taa 423

<210> 12287
 <211> 421

<212> DNA
 <213> Glycine max

<400> 12287

catttactac agacctctc aaccatagtt gttatttcaa ccacagcaga acaattatga 60
 cctctccagc aacagatata atcccggatg gaggaatcac cctaattctca gatggcttag 120
 ccctcaacaa caacaacagc agcctgctcc ttcctttcaa aatgatgctg gcctaagcaa 180
 gccatacatt cctccaccaa tccaacaaca gcaacagccc cagaaacaac aaacagtga 240
 ggctcctcgc caaccttccc tcgaagaact tgtgaggcaa atgactatgc ataacatgta 300
 gtttcaacaa gagaacatag cctccattca gagcttaact cgccagatgg gacaattggc 360
 tacacaatta aatcaacaac agtcccagaa ttctgacaag ttgccttctc aatttgctct 420
 g 421

<210> 12288
 <211> 237
 <212> DNA
 <213> Glycine max

<400> 12288

aaaatgatgc tagactaagc aagccatata ttccttcacc aatccaacaa caacgacagc 60
 ccataaaca acaaacagtt gaagctcctt cacaaccttc cctcgaagaa ctagtggaggc 120
 aatgactat gcagaacatg tagtgccaac tagagaacaa agcctccatt cagagcttaa 180
 ctgccagat gggacaattg gctacacaat taatataaca acagtcccag aattctg 237

<210> 12289
 <211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12289

tatgctgcan acatttaca cagacctcct caacctttca gcaaaatcaa ccacagcaga 60
 acaattatga cctctccagc aacagatata atcccggatg gaggaatcac cctaattctca 120
 gatggcttag ccctcaacaa caacaacagc agcctgctcc ttcctttcaa aatgatgctg 180
 gcctaagcaa gccatacatt cctccaccaa tccaacaaca gcaacagccc cagaaacaac 240

aaacagttga ggctcctccg caaccttccc tcgaagaact tgtgaggcaa atgactatgc 300
 agaacatgta gtttcaacaa gagaacagag cctccattca gagcttaact cgccagatgg 360
 gacaattggc tacacaatta aatcaacaac agtcccagaa ttctgacaag ttgccttctc 420
 aa 422

<210> 12290
 <211> 342
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12290

agcttgacag gttcaggcgc aggtgcttct actggtggag gcacttaaact ttggttgcca 60
 aacctcaagg tgatggcact cacatttttc agattctgca cagtttgtga aggcaatttg 120
 ttagaatttt tggattgagc ttggtttaac tgagtagcca ttgccccat ctgatttggt 180
 agactttgaa tggaggctct tgtctcttgc tgaaattgca tattctggat ggtcatttgc 240
 ctactaact cttctaanga aggttaagga gaggcctcag ttgcttggtg tctttgttgt 300
 tgttgctggt gtattggagg aggaacatat ggcttgcttg ga 342

<210> 12291
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12291

agcttctggt gggacttctt gacttgcttt ccaatctgac attcaccaca gattctgcct 60
 tcttctattt tcagattggg aatgcctcta acagcacctt tgtcaatgat tttcttcatg 120
 cctcttaagt gcagatgtcc aaatctttga tgccatattc tgacttcac tctcttggag 180
 gatagacatg tggaggagta actggtttct tgaggtgtcc ataggttaaca gttgtccttt 240
 gatctgtctc ctttcattag aacttcactc ttctcatttg tcacaaagca tcttgactnt 300
 gtgaagttaa cattgaatcc ttcacacac aactgactga tgctgatnca agttgcagtc 360
 agtcccttca ccaacagtac tttgtccaga ctangaagtc catcat 406

<210> 12292

<211> 431
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12292

tcaacattca atttcgagcg tctagatata ttacattatt caatcaaaca tccgagtaaa 60
 atgttactgt cgtttaaatt tgcttggtc tccagcatta aatttcgagc gtctcgatat 120
 attacgggac tatatcagac atccgagtaa aaagttgttg tcgtttgaat ttgcttagag 180
 attcaacatt catcttcgag tgtctcgta tattacggng ctcaattaga catccgagta 240
 aaaagttatt gtcgttgaa ttggctttga gtttcaatat tcaattacga gggctcgat 300
 atattacggg actcaatcag acatccgagt aaaaagttat tgcgtttga atnttctcat 360
 agcttcatca ntccaatttg agcgtctcta tatattacan gactcaataa gatatccgac 420
 tagaaaagta t 431

<210> 12293
 <211> 424
 <212> DNA
 <213> Glycine max

<400> 12293

 agcttcaaga aaaagatggc ctcaacttat ttcttatttc cagaagggaa ttctatcaat 60
 agacctcaa tctttaatgg agaggggttac cactactgga aaacccgaat tcaaattttt 120
 atcgaggcaa tagatctaaa tatctgggaa gccatagaaa tagggcctta tatacccacc 180
 acagtagaaa gagtttcaat agatggtagt tcatcaagtg aaagcataac catagaaaaa 240
 cctagagata gatgctctga agaggataga aaacgagtac aatacaacct aaaagccaaa 300
 aacataataa catctgccct aggaatggat gaatatttca gggtttcaaa ttgtaagagt 360
 gctaataaaa tgtgggacac tcttcgatta cacatgaagg aactacagat gttaatatagat 420
 ctatag 424

<210> 12294
 <211> 451
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations

<400> 12294

ggacctataa aactcagctt cacataggag ctgcatcatg tgtgatttat agcatcttca 60
tetaagnnag gttcttttgc ttctctatc tttttattcg gtcaattcac ttttaattct 120
tgtttctcat cttattctcc atgtatatcc ttcattgtct tgtgttttga tgtgttttag 180
agtatatcca aaaaataaac cgattaaac ttagatctac acttgttctt gcatttctat 240
ggttcaaatt ttatatatct actcttgaat catgtttttg tgttgatttt aggttcaatc 300
attttccagt cataatcttc ttgtactgaa cttttaaac taaattttat tccanaatat 360
tgattataaa aaaagcacia aaatctaagt gtaaatcact taatctatgt tgtcttagag 420
tcatgtntag tcataataat tgtcacatta t 451

<210> 12295

<211> 437

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12295

ngacattaat agtttgaata tatttattac cttaaattgtt gtaattntat ttattacatt 60
tacttgacaa attataattt tgtttattat tatctaagat ataccattta ccgaatttca 120
attttaaatg ggtgactaca agttgtataa aattcacat ttccatcatc aaagatttca 180
ttttaaatct tgagtaatct ttatgaatat aaaattatgt tttattactt atttacttca 240
ctttctagct tcaaagtatc tatcagaaaa ataatcaagc cataaacaaa taaacgaatc 300
aagcccaagc ttcatatatt ttaaccaact caagttgaag ttttaaatgt gttcagttta 360
aataaacgag tgaagcttga gtaaccatt ttcttcacaa ggcaaacctt aactatagct 420
cagctaaact tgtttac 437

<210> 12296

<211> 420

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12296

agcttcttaa taatgatgaa cgattattaa catgtttcct aatatatatt gtcttatttt 60

atatattttt aatatcacta ataactaatt tttaacattc tatcattcaa aagtattttt 120
 aaagaaataa tgaattaact ttcaaatatt ttagtaccat attgtgaaat tgtgtctaan 180
 atctttattt catcttctaa atcacaaaat tgataataag gttcaaaact aattgttaat 240
 cacgataaga atcacccatg aggggaaaaaa aacctctata aagttcattt acattaaaaat 300
 aaactcaaag ataatacaga ttatttttaa aagataaatt ttatatttta aaataaaaaag 360
 gaggggtcta attaggaatg caaataagac aagactntac ttaaacaagg tctgacttat 420

<210> 12297
 <211> 348
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12297

agcttgacca acctatttct atggatngac tcttattaat acataatcac catccacgat 60
 atccaggctc ttctcttctc tatcttgata actcttctgc ctactctgag cagttctcat 120
 cctctcttga atcaacttaa ccttcttagt ggtttggtgt accacttcag atcctaaggt 180
 gaggttctct ccaagttcta gccagcacia ggggtgtcta caccttctac catacagaac 240
 ttcataagga gccatgccaa tggtagaatg aanactattg ttataggtga actctatcaa 300
 cgacaaaagc tctcccaatt tctttttttg tttaatacat aagctctc 348

<210> 12298
 <211> 331
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12298

gagaggagac accacttcac tgagaagatg agactagaag aagctcacca ccataggagg 60
 ccatggataa gagcttggaa gaagaaggag atgaatgaag ggagaggaag agaagagcac 120
 gtaattntgt gctctaaaag agctctgaca tctgaagttt aatattcaaa agatcaaaagt 180
 tgagaaaatg cacacacatg gcctttattt atagcctaag tgtcacacaa tattggaggg 240
 aaatttgaat ttctattcac atgtcacttg aatttgagat tgagtctgtt gagccatatt 300
 ttggagccaa aatttacta attatgatta g 331

<210> 12299
 <211> 333
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12299

gcctaattcg tctaagagct cgtcaatggt gggatcggga naccgttcac gcaccgtgag 60
 tgcattttaa gctctgtagt ccatgcaaaa gtgccatgaa ccatcctgct tgcgaactan 120
 gagcacagac aagaagggtc ctttctagag cattgattca acctgcgatt caatctcatg 180
 tttctggtaa tgtggataac gatagggccg tacgttgact ggcgcanctt gcggcangag 240
 gtggatgtgg tggctctgtt cgcgggcccg tggcagtgaa gaagggtgct gaaataatgc 300
 aaganaatga tcaattaaag attggatagc tgg 333

<210> 12300
 <211> 376
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12300

tcttctcctt cacttttctt ctctcattat tctcccttct ctttntccca tgttggtact 60
 cctttagatg gcaaggccaa gctcttatag catggaaaaa cagtttaaac atcacttcag 120
 atgtgttagc atcatggaac ctttcagcct caagcccatg caactgggtt ggggtgtatt 180
 ggaactcaca aggagaagtg atagagataa gcctgaagtc agtgaacttg caaggctcat 240
 tgccttcaaa ttttcaacct ctaaggctct tgaagattct tgcctctca tcaaccaacc 300
 tcacaggaag tataccanaa gagaatggag actatgtaga gctcatcatt gttgatctca 360
 gtggcaattc tctctt 376

<210> 12301
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12301

gcttgcac cagtcttcta acctctttga ccatgctact aangagagtt tttagcttcag 60

aatactcctt actttccatt agaaatgctg caagccttgc ctcaactcgc tgcctcagaa 120
 aggtatgctn ttcagcacgt gtccattgca ccatttcttt gcagagtgta atttgtagat 180
 cagtagtccc tggatattttt gcaacagaat caattatgcc cctcactatc tttgctgttt 240
 ttgccttang aatcaaggaa aagaagggcc tcaactgagt aagaaggcta tgcagatcct 300
 ctgcacctatn ttgttccctg agatgctcag tgaggtttgt gatggcctgt tctttcatgc 360
 gcagagcatc tggagaagaa gaaggataat caagtacctg ataaagaatg gagatggact 420
 cngatgggtc tttgcatcca ct 442

<210> 12302
 <211> 347
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12302

gtctcacgag tgtctcgtgc tcatgcaact ttgttagcc gtggctatac gagacatctt 60
 gccaaacaaa gtcagggttaa cgataactcg cctgtgcttt ttcttccatg ctatatgtag 120
 caaagtcatt gatccagtc tgtntgatga gttggaaaat gaggccgcaa ttaaactgtg 180
 ccagttggag atgtattttt cctctgcttt ctttgacatc atgattcact tgattgtgca 240
 tctggtcaga gaaatcaaat gttgtgggtcc tgtttatcta cggtggtatg acccggttga 300
 gcgatacatg aagatcttaa naggttatac aaagaatcta tatcatc 347

<210> 12303
 <211> 345
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12303

acaattaaac tttgtgctta tcacggtagt atagtgtatc aaatggacat aanaagtggt 60
 ttctcaatg gacttatacaa ggaagaagtt gatgtggaac agccccttgg gtttgagagt 120
 tctatatacc cttaacatgt tntcaaatnt aacaaggctt tgtatanttt anaaatagct 180
 ccttgagctn tgtatganaa gctaagttca nttttaattg aaaatggctn tataagagga 240
 aaggtagata ctactctgtt tcacanagat tatggtagtc aattcctaata catccagata 300

taagtgagcg atatcatatt cgatgctact aatgactctc tgtgt

345

<210> 12304
<211> 257
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12304

ttgtagaaca atatatccca acacaccana ttattggctn tctcagcaca ttgctttgaa 60
aagagggtatt ccttcttctc ccttcttgca tcgtcaataa cctcattgac caccaaggta 120
ctatgaagaa gatacctatc tttcaagaag gtgttggtgt tttgatcaat aactccattt 180
aatactttca tcaacctatt ggcaagtaat ttgcaaata ttttgtacaa gcaactaaca 240
agt**gag**atga gtctaaa 257

<210> 12305
<211> 337
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12305

gtatgtacta cgtgtcacta tgcagatcat aaacgatcat ccttttcttc aagcacttca 60
catgaattaa tcaanttttta tctcatatcat atagatatat ggngaccctg ttcaaagggt 120
tctatgcatg ggcacgttta ttttttaacc attgtggacg atcattctcg ctntacatgg 180
atttacctaa tgcaaacaaa agctgaggct cgaanactca ttatcacctt cgttacatat 240
gttcaaacgc aatntaataa aaccattana atcatatcgt gtgataatgg tgetgaattt 300
cttatgaatg aattttatgc tcanagggga atcatatc 337

<210> 12306
<211> 386
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12306

ggagggtgtg ctgtatccaa tgaatactct gagttctgtt cnnntatcaa gttggccctt 60

ttaacctgtg gaacataaga gaaacaaaca caaccacaga ttttttagatt ttgtaaatct 120
 ggttcgtaac caaaccaacc ttcaaatgga gtttttttgt gcagaactct tgtaggtagt 180
 ctattcagca aaaatactgc agtgtttgca gcctccgcct atagctcctt tggcaactcc 240
 ttttcatgca gcatacacct tgtcatctcc atgatacttc ttttttttct ctcaactcaca 300
 ccattttgtt gtgggggtga aggtacgggtg aattgggtgct caatgccaac ttcttcacaa 360
 aatttatcac aaacatcatt tatgta 386

<210> 12307
 <211> 450
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12307

gcttctgttg gatcgagtgg cctcagaata atttatatag gggggttgaa ttaattattc 60
 ctagaccttt actaattaan aaattactct tctaaggctt ttacttatgt tgtaagaga 120
 gtatggagta gaagagaaac ttaacagaaa gtaaaagcgg aaattaaatg cacagcggan 180
 agtaaaagag tagggatgaa ggaaacaaac acacaagagt tnttatactg gtttggcaac 240
 aaccctgtcc tacatccagt cccaagcga cctgcggtcc ttgagatttc tttcaactct 300
 gtaaaaatcc atttacaagc aaagatccac aagggatgta cctcccttg ttctctntga 360
 acctagtgga tgtaccctcc actagaactg atccacaaga gatgtaccct ctcttgttct 420
 cagtcaaacc caagtagatg taccgtctac 450

<210> 12308
 <211> 300
 <212> DNA
 <213> Glycine max
 <400> 12308

tctgtacctg gtgcaagggg ctgcggattg tgctcctctg ctgaccacca tacagacctt 60
 tgcccttcca tgcagcaacc tggagcaatt gagcagcctg aagcttatgt tgcaaatatt 120
 tacaatagac ctctcaacc tcagcagcag aatcaaccac agcagaacaa ttatgacctc 180
 tccagcaaca gatacaacct ttgatggagg aatcaccccta acctcagatg gtccagccct 240
 cagcaacaac aacagcagcc tgctcttacc atcaaatgct gtggccaagc gaacatacat 300

<210> 12309
 <211> 393
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12309

```

ttcgagcgtc tcgatatgtg atacgactgt atctgaagtc tgagtttaaa gttttaaccg   60
ttagaattta tcagacagct ttcgttggtc aattntgaga gtctcgacat attatgtgcc  120
cgaactcgac atccgtgtga aatgttatga ccagttgaat ttctcgagag ctcccggtgt  180
tcaatttcta gcgtctcgat atattatgcg ctcgaaacag acctcctcgt gaaatgttat  240
gaccattaga atttctcgag agcctgcata tttcaatttc gagcctctcg gtatattata  300
ttaccgaate cggcatccat gtgtaatgtt atgaccatat ggaatttttc gtggacttcc  360
attgttcaac ttcgagcgtc tcgatatatt atg                                     393

```

<210> 12310
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12310

```

ctttaaaggg aagtgggtgc gcttggnttc ttcccgctc ttctctttcg taaaatntct   60
tctcttatgt ccacaatctt gtcttgtaa ccctgggtcaa gaacatgacg ttatgtaaag  120
aactctaact cactcattgg ttctcaacaa aaattaaaaa ttactaagtg gtaatcatag  180
tttctattaa tctttgcatg acataattga aggatntaat tatatgtact gacagaataa  240
aatntatnt atatagtgat cgggtgataa tataaaaaac ttgacctnt tntaattaaa  300
taataataat aacaactaac atataanaat tagtcaaacc gcgtaattng acaccataca  360
ataatttctc gcanaaatat gtcacgcata ctanggttng ttattcttaa taact       415

```

<210> 12311
 <211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 12311

aaaaatattt gttttagttt cttatatata aaaaaataat aagttatata ttgacaaaag 60
aacacagtat atttctcatt taaaataaaa tatttctctt agaatttact ttatgtctta 120
cfaatgtgtc cgtgggtctgt ggatagcatg tcattaacca tcactctcga caacataata 180
attgttatta aaagatacat aaataatggt tgattaaaat atttttcaat ctataaaatt 240
atggagctnt tataaaaatta ataattactt taatttggtt ttgttctctgt ctctaaaaaa 300
tatgagaata atgggtattta tttattgaan aaagattana actatagagt gaatagtcta 360
catatacact cataatataa ataattttta cactcttatt taatgataaa ctntcgttca 420
atcacatnat tgttatcgtg tgtatatat 449

<210> 12312

<211> 367

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12312

gaaaaagagg tattccttct tctcccttct tgcctcgtca ataacctcat tgaccaccaa 60
ggtactatga agaagatacc tatctttcaa gaagggtgtt tgcttttgat caataactcc 120
atttaatact ttcacaaacc tattggcaag taattntgca aatattttgt acaagcaact 180
aacaagttag atgagctctaa attccccaag gctntgtggg tcactctacct ttgngacaag 240
agcaatgaaa gaagcattgc tatcccttag aagcacacaa ttagagtgaac actcaattac 300
aaacttcaaa atatcatccc ttaataattt tcaaaaagat ttagaanatt gaagtgtaac 360
catttga 367

<210> 12313

<211> 384

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12313

cgttcaattg gatacatcca ccgcagaata accggaccac acaaccgaat ttccttcaca 60
agatgaacaa tgagggtgaac catgatgtca aaaaatgatg gtgggaaata catctctaac 120

tgacaaatga caatggcagc ctcattctcc aagtcacca attgatgagg attaatgact 180
 ntactacata tggcattaaa aagaaagcac aaacgggtta tggcaactct aactatgtca 240
 ggcaagatgc cggaatcgc aacaggcaat aattgttgca ttaagacatg gcaatcatga 300
 gacttcaagc caaccaactt aagatcattg annggcgaca ggctcttgat atttgaagag 360
 tatccttggtg gaactntgac attc 384

<210> 12314
 <211> 350
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12314

atatttttat tattcaagcg tagttagtaa tcgtggtagt tagtaatgat tntagttagt 60
 aatgatntga gttagtaatt atattactta aattttcaat caggtaatat aattagaatt 120
 gatatttaatt tatttgtaatt tatttttagtt agtaattata tttaacataa aatataagtg 180
 aattcaagac aatattagat agtattatat agatgtatgt aattcttcta agtattatat 240
 agtgtaaaaa taatctaagtg ttatattaga tagtattaga tagatgttat ataaaagtta 300
 cttgtttatat atgggagtag gtagatgtgt ttaaaacaaa gtagataata 350

<210> 12315
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12315

ctcagctttc tttgagaaat aaaggcttgc tcttgttntt cacccttggg aaatgtcaca 60
 ttctcttcca ccaactcatt gagaggtag gcaattgtag aanaattang aacgaacctt 120
 ctatagaagc ttgctaacct atggaagctc ctaatatctc ccacactntt tggggtgggc 180
 cattcttgga tggccttgat tttctcaggg tccaccggga cccatttctt accaactaca 240
 aaccctaaga aaactatatt atctacacaa aaggtagact tctctatatt tgcatagaag 300
 gtgtntttcc taaggactga aagaacttct ctgagatgtc ctaagtgate atctaggctc 360
 ttattgtaca ctaaaatatt atcaaaataa acaaccacaa atctacctat gaaatccctt 420

<210> 12316
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12316

gcttgccacat tgctgtttga tagaagaaga gctttgatgg taaccttggg acttcgatat 60
 caaacggtac atcgaagaca aggaataccc gtaagaggcc tctgacaacg acaatggcag 120
 ccggtttttt cctaagtggg aatatcctgt acaagaggaa ccgatgatatg gttntgcttc 180
 gatgtgtgaa tgctagagag gctgagcaaa tgctggtaga agtgtatgag ggctcctttg 240
 gaacacatgc caatggacat gccatggcct ggaagattct aagagtaggg tattactggc 300
 tcattatgga aaatgattgt tgcatccatg tgaggaagtg ccacaagtgc caggcccttc 360
 accgatatgt caatgctctg ctctacctt tgaacgtctt 400

<210> 12317
 <211> 364
 <212> DNA
 <213> Glycine max

<400> 12317

cccagctggc ctgcaatcag aaatctgtac ctgtcgcaag ggtttggttggt ttgtgctcct 60
 ctactgacca ccatacagac ctttgccctt ccatgcagca acctggagca attgagcagc 120
 ctgaagctta tgctgcaaat atttacaata gacctctca acctcagcag caaaatcaac 180
 cacagcagaa caattatgac ctctccagca acagatataa ccttggatgg aggaatcacc 240
 ctaacctcag atggtccagc cctcagcaac aacagcagcc tgctcctttc ttcaaatgc 300
 tgctggccca gcagccatac attcctgcac caatcacaac aacaacaccc caaaacagcc 360
 acag 364

<210> 12318
 <211> 386
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 12318

tattctaaag cccgattata gttgtaangc ttctatcaca tccaagccta atgcctgcaa 60
accatgattg tctaatatnn tcacggattg agccttcttg agcctatttt aacattatta 120
tgacctgggc ttgtgaggaa aaggcagtga tgggtcnaat gttataaata gtttcaatag 180
ctatttttgc agtttcacat tgggctttga tagcctttnt agacataccc ttgaggagta 240
caagtcttgt gtagaaactt gcaatgccaa taggttgaac aacaatcaat ataatggcan 300
atctccatgc aatgattang cccattgtgc atgctatcac cactgctgan atagtttgta 360
ccaacagagc cattctatct cccact 386

<210> 12319

<211> 300

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12319

aagcgtcttg atatattacg ggactcatte atacatccga gttattagtt attgtcggtn 60
gactnttctt agaccttcog ttttcaattt cgagcgtctc gatataattac agggatcaat 120
aggacatctg agttaaaact tattgtcgtt tgatttttct ccgagcttcc gttatcaatt 180
acgagcctct cgatattccta cgggacacaa tgggacatcc gattcaaaag ttattgtcgt 240
ctgaattcgc tcacagcttc agttttcaat tacgagcgtc tccatatatt actggactca 300

<210> 12320

<211> 301

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12320

agctgaattg aaactaaagc tctgagcana ttcatacgac ataatttgac tcggatgtgc 60
tattgtgtcc cgtaggatat cgagacgtc gtgattgaca acggaagctc tgagaataat 120
caaacgacaa taactcttat ctccgatgtc cgattgagcc atgtaatata tcgaaacgct 180
cgaaattgaa aacgaaacct ctatgataag acaaacgaca ataacttttg attcggatgt 240
ccgattaagt ctcgtaatat atcgagacgc tcgtaattga gaacagaagc tctgagtccc 300

<210> 12321
 <211> 324
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12321

gagcatgata ttgcgtctat accgttgact gtttatcagg tatatgagcg ggttcaacac 60
 ctgaacactg tatttgggaa gaccacacg aaggataaaa gtcagagttg catatggaag 120
 aagaggttca ttntctttga tcttcctgac tgggtgtgac ttgacgttag acattgtatt 180
 gatgttatgc atgtggagaa naatgtttgt gacagtgtga ttgngacgct ccttaacatt 240
 caaggaaaga cgaaagatgg cttgaatacc cgtcaagatc tagctgatat gggataaga 300
 tcacagctgc atccaaggtc tgat 324

<210> 12322
 <211> 360
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12322

atcttgnta ctctactttc tcacacgatg aactttactg gactctctgt atacaacatc 60
 aatgaataaa tcaatattag ttctatgac atcttaggtt ctttaagcaat tagccaagct 120
 atctagagga agctcccttc aacttctttg taacaggaag ctccctcttt ntatattcaa 180
 gggtagctag ctatgggcaa gctttacctt gctgatggga agctagctaa gtgttagtgt 240
 ttggctctac tgagctttaa aagattggct aagattntgt taaaacataa gcacttagac 300
 aatgaaggaa agctggagtt gctgcacatg atgtccaacg ttatgtcaag gaataagatc 360

<210> 12323
 <211> 370
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12323

tctgcagagt ggaatcattt atcgtatctc cgatagccaa tgtgtgagtc tcgtcccggt 60

agtcccgaag aggaccggcc ttaccttcat aaacaatgag aaggaggagt tgattcctac 120
 tcgggtgcag aacaggttaga gagtctgcat cgattatagg aggctgaact aggttaccac 180
 aaaggaccat ttcccttgc cattcattga ccatatgctt gaacgcctgg caggtaaadc 240
 tcactattgt ttcttgatg gttnttctgg ttatatgana atcactattg ctctgagga 300
 tcaggaaaag accacattca cctgccctt tggcactttt gctataaccg tgcaatgccc 360
 ctggtacctt 370

<210> 12324
 <211> 412
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12324

agtgtgtgnt aaatgtctaa aatataaaga aaattatgta ataatgtttc tttgaagaat 60
 atnttatcag tgaaaaataa atattttgaa tattgaattt gtatgtattt ttttaattaga 120
 ttaggttggg gttaatgatt tattagtgtg ttaataatc atgaacgttt caactttcat 180
 ttaaaaaaat tagtagatca tattttattg aagaaagtat tttagatag aaattttatn 240
 taatatgaag tttagatatt tttttaatta gattagggtc atntttttgt gttaaaaatt 300
 gataagcgtt caagttgaaa gtgttatttg atgatgttnt nngtgttctt gtatcatatt 360
 tanattaata tattttgtag taattttgaa ttacctattt tcattttgaa gt 412

<210> 12325
 <211> 321
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12325

taataattca nataatactt ttaatatatt aagattcaat gataaatact cttaatatat 60
 ntntagttta attatttatt aactctttta atcgaaaata atatagtctg atttaataata 120
 tacatgtttt gtgtcatgta aatattaata ttgtctgatg tgtatatgat tcattggggcg 180
 tgataacgtg atatattgng attatgagag tgtgatgaac tgtgtgtaag agacaagtcg 240
 agtatatgtt aaattatgag atcacgcgtg tattgagata ttgtgtggat taagntatga 300

gttatgaatt gtacaatcac a

321

<210> 12326
<211> 451
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12326

ttaagttctt cctcaaaact gtccaaagca aagntccttt gtccctattag caacttttgt 60
ttgcccacg gtttgtgggt gacaagctgg tgaaaataac aatttactgc ccaacttgc 120
ccacaaagtc ctccaaaaat ggcttaggaa cttagagtcc ctatcactaa caatgctcct 180
tggaacacca tggagtctca caatctcctt gaaaaacaaa tcagccacat ggaagcatc 240
atcaactttt ntacatggaa taaaatgagt catttttagaa aacctatcaa caaccacaaa 300
aatggaatct ctaccatttg cttgttttgg cagccacaaa acaaaatcca tggataaatc 360
aatccaagga tactccgaaa ttggcaatgg agtatacaat ccatgaggct ttacttagac 420
tntgcctttn tacatacaat gcaatgttga c 451

<210> 12327
<211> 300
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12327

cgagacgctc tanatngaatt gttgaagctc tcagcanatt cacacgacaa taactatnta 60
cttgaatgct tgattgagtc ccgtaataata tcgagacgct cgaaattgaa tgttgaagct 120
ctcagcacat tcaaacgaca ataactattt tactcggatg tctgattgag tcccgcaata 180
tattgacacg atccgaaatt gaatatctga cttctgagca aantcaaacg acaataaactc 240
tgtactcgga tgtctgattg agtccgctaa tatatcgaga cgctctaaat tgaatgttga 300

<210> 12328
<211> 217
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 12328

gctatatata tgcatacgct cganataaac atcgaattct ctcgagatat tcatatggtc 60
ataactnttc acacgaatgt cgcattctgg cgcataatat gtcgagaggc tcagaatcga 120
acgatagaag ctcttgagaa attcatatgg tcataactnt taacacggat gttcgatcca 180
ggcttattat atatcgatac gtcgaaatt aaacatc 217

<210> 12329

<211> 313

<212> DNA

<213> Glycine max

<400> 12329

agcgtgcctt gtcccttgat atattcgagt ttctatgggt actatgaatg acaaaatcct 60
tgtgataaac gtagtgatgc catgttatca aagcccgta taaggcatac aactccttat 120
catatgttga atagttaagg gtcggaccac ttaactgttc actaatataa gcaactggat 180
ggccttcttg catcaacaca gccccaatcc caacatatga agcatcacac tcaatttcaa 240
aagatTTTTG aaagattggc aacgcaagta tggcggcatt agttagcttt tgcttaagaa 300
catagaaagc ttc 313

<210> 12330

<211> 432

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12330

agcnttgcaa tattgagaat gtgttcttct attttagttg tcaaagttga taagttcggt 60
tcattttctt aattttatct gtttaattgt ttgtattctg ataattaaat tagttatttt 120
agatattata aaatttgta aaagttttag gtatagtaaa ttagtagtgt attaatTTTC 180
tatcttacct tagttatagt tttaaatggt aaattagatt tactttgatg atttaagttt 240
tgtacggtag gttcatgttt agttatagtt ttaaagata ttagttctag ttctagtttg 300
aaataatatt agttctagtt ttaattgtaa atgatattag tcttgtaagt taggtttagt 360
tntagttaaa tatatttttt ttttttatgg taggttagtt atatgatata ttgtattaat 420
tntgcgtata ta 432

<210> 12331
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12331

```

tgataaaaaa gaatgtattc tctatttttt atgtacaagg aaaagggaga aaaaaatana 60
nnaataataa ctgcggcgct ctagtctcgg gcacattaac gtctcttggc cgcgagacat 120
ttcaattccc acttattcgg aatcgacaca gaatangtta gtccaggttt agagatngct 180
tatatccttg gtttgatnt agaannatat ttaatccana taaatggaat aatggtaatt 240
gacgtaattg gatanggggtg ttacttttt tgctaatacat taagaattaa tgttatatat 300
anaagtgtaa ataatatgaa aactatatct ataattacac ttatttctat attaaacaac 360
aattgatata ttggtagtta atctcagtaa taataattta tanataaagc ggcaacatat 420
atttattaat attatattta tat 443

```

<210> 12332
 <211> 454
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12332

```

catgcaagct tctggcccag tnggcccgt aactcacta tgataagcgg tattattaaa 60
ccagacaaag catcaagcaa taaaaccaa aacagataaa gcacctaaac tataagataa 120
gtaagcttct ccagaccata caagtgcacg ccgagcccat gcaaaagggt ttggttaagat 180
atgccagatt ccaccaagta tacaatatga acccaaccat acatgcccc caattatatc 240
ttccaaatcg tccacactaa caatccacc ttctcccca aaagggtgatt ttaataaata 300
tccaaatata atacttggac taagggtcaa attggttatt ttctttacat ctccgcccc 360
cggagcccac gtatcatata tacctncaa ataaagagcc ttgaatacta gaagaaacgc 420
acctatacct aacaagatta agtgaatacc caaa 454

```

<210> 12333
 <211> 378

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12333

 acctgagcat gcttgtagta tgaatagata aattatcacg tggttctaga ttactgcggt 60
 gtttattaat ctatgatata tacataagat tattaactct ctcaaagatc ataacatcta 120
 aatgatattt ttccacatat atagttgaca tngaaatntg ttaacaagtt atatatacat 180
 tatcgtaana tatatacacc gcattatttt atgagtgtgt tgtaactaaa aacataaata 240
 agtgttatatt aacacatgtc tataagatgt gttaattcac acttatntat tctttaatta 300
 gaataagtct atatattata gctaaagata tctcgaatac atccagatgt acttataatt 360
 acttaactat atcatata 378

<210> 12334
 <211> 459
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12334

 tcacctgcgg catgcaagct tgctaaccga tggaagctcc taatatctct cacactntnt 60
 ggggtgggcc attcttggat ggctatgatt ttctctgggt ccacttgac cccatttcta 120
 ccaactacaa aatctaagaa aactatatta tctacacaaa aggtacactt ctctatat 180
 gcattgaggg tgtttttcct aaggactgaa agaacttgcc tgagatgtcc taagtgatca 240
 tctaggctcc tactatacac taaaatatca tgaaaaataa caactacaaa tctacctatg 300
 aaatccctta agacatgatg cataagcctc ataaagggtc ttgggtgcatt tgtgagccca 360
 aaaggcatca ctaaccattc atacaaacca aacttgggtc tgaaagcggg ttccactca 420
 tcaccctttt tcatcctgga ttgggtgataa ccactttta 459

<210> 12335
 <211> 434
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12335

agctttatat ctttctggcg ccgagctatn ctcccgcagg acctccccta cagtatcgtc 60
 gccgcagtag agtctaacca ccaagttcgg gatggattgg tgtggttctt ctacgcctag 120
 gacaccagaa tatcgaacca tgaacgaaga aaggcatgag ataaaagcaa atatattggc 180
 tattcattgt gaggccctaa ttctcgactg gaggggacac canaggccta tgccttcca 240
 ttcttggat agatagagag gaggggcaga gtttttggtt atttcatgtt gtcaaagagt 300
 tgaacaatga aaatggatga ctagtgcctg atcgaattga tcggatcatg tatgaacaag 360
 gttcacgtct accggtctgt taggatgcct cagctgcata catcactgca cttccacttg 420
 acacctatca ttaa 484

<210> 12336
 <211> 444
 <212> DNA
 <213> Glycine max

<400> 12336
 atgctatcag tcacctgcgg catgcaagct tctatatttg ttcttctcta atttctctac 60
 aattgcatca cctctcaatg agctggtgaa gaagaatgtg gcatttacct gcggtgaaaa 120
 acaagagcaa gcctttgctt tgctcaaaga aaagcttact aaggcacctg ttctagctct 180
 tcttgacttt tctaaaactt ttgagctaga atgtgacgcc tctggagtgg gagttggagc 240
 tgtattgtta caagggtggc accctattgc ttattttagt gaaaaacttg atagtccac 300
 cctcaactac cccacctatg ataaagagct ttatgcctta ataagagccc tccaaaacttg 360
 ggaacattac cttgtttcca ggaatttgct attcatagtg atcatcaatc acttatgtac 420
 attagaggac aaagcaagtt aaac 444

<210> 12337
 <211> 377
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12337

catgcaagct ntaattctga tgagcatgtc tgattcatto tgaaccacag aaatagcatt 60
 acactcaact aaacttcttc gagacaatgc atcagccacc atattttctt aacctgctt 120
 ctattctatg caaaaatcaa attctatgag tttaactaac catttctgct ggaatgctgt 180

agctaacctc tgatccaaaa tatacttgag actcctatga tcggttctta ttacaaaactt 240
 cttaggtaac aaataatgtc tccacttctg cactgcaaag acaacaacca gcaattcctt 300
 cttataagtg gatagggact gttgctacac attcaagctc ctgctgatga aggctatggg 360
 atgattgtcc tgcacaa 377

<210> 12338
 <211> 431
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12338

agctttttaga atatataata aaagaactat gtctattgaa gaataaattc atgttacttt 60
 ntatgagact aactctatta gcccaagaga ggatatactt gatgatatta caaatacttt 120
 agaagatagc cttattcatg aagaagtcca caaagacaaa gaagacaaaa atagtagaga 180
 tgcctaatcc aaagaaaatc aaataaatgt ggatcttcca acggagtggg gaacttcaag 240
 gtaacacctt cttgataata tcataggtga catctcanaa gggataacaa ctcgacactc 300
 tcttaaagat gcatgcaata acatgagatt tgtctcttta attgaacctt anaacataaa 360
 tgaagccata attgatgaac attggattat ngctatgnca gaaagaataa atcaatttga 420
 aagaaatcaa g 431

<210> 12339
 <211> 288
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12339

gctatatata tcgggcgcta naattgtatt cagaagctct tgagttattc aaaggggtcat 60
 aactnttaac tcggatgtcc aattcatgag catcacatat agagacgcta aaaaatgaac 120
 aacagaagct ctccagaagt taaaacggcc ataagtcttc acactgatgt ccgaattaag 180
 cttatattat atcgagacgc tcaaaaatta acatcgtaag ctctcgagaa attcaaatgg 240
 tcataacttt tcaactcgat gtccgattca ggccgataac atatacag 288

<210> 12340
 <211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12340

ttcgatagcg ggaagagana aaagattatc catagaaaaa ctaaactcaa gccgagaagc 60
 aaagaagcaa ctccagggtt gcgaataatt ttgaaaagga gactattaga ggccaggaga 120
 gytgcaacag agagtaccgg gtgaaagcgc ttaacaactt ttgaaagtca gacacgacgt 180
 cattctcgcc gccaccaccg tgctgtgcag aggcaacatc gactgtgtgc atctcagctc 240
 ctgcgaaatc ctacaacaga ccaacgacaa caacgacaaa tcgataattc taaggcttat 300
 ttgcgattag gagcaaaaac gaacatcgta tgacgaaggg aaacctgggc aataaggact 360
 ggtgaatatg agaaaaggag gaagctgggt ttgagaatga agaagcgcca atgtntgaat 420
 tgatggctga ttttatagat gaaattgat 449

<210> 12341
 <211> 388
 <212> DNA
 <213> Glycine max

<400> 12341

tgctattttc atctccttac ttcttcaaaa acatgtaaaa tgatactatt gcccatccct 60
 gtttttctac aggccttccc ctttcttgca caccactttt ccttctcttg atatatatat 120
 ttttatttaa ttaattatg atatagtta tcattttaac tataactgaa tgaactatga 180
 cacagattat catatgatga cacaagctat cctttcttaa taataatcaa cataattatt 240
 atacaaatta gcatacataat atagcaaatt tgcatagtaa ttaacttgag ttttttata 300
 aatgataact cctatcataa ttaaatctaa ttggtattca ttactattca aaaaatggaa 360
 ttttaatgta taaaagataa ttgatca 388

<210> 12342
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 12342

agcttcctta ttatgattcc taaagaagct atagcttagc tacacatacc tctttaatatag 60
 ctaagctcac cttcttaaga tgagaagcta gagcttagct acacacccgc tataataact 120
 acgctcacc ccatggcaaa atacatgaaa atacaaaaaa aatccctact acaaagacta 180
 ctcaaaatac ctcgaaatac aaggctaaaa ccttatacta ctagaatggc ccaaatacaa 240
 ggcccaaaaca aaggaaaaac ctattctaatt atttaciaag ataagcgggc tcatgcttag 300
 cccatgggct caaaatctac cctaaggctc atgagaaccc tagggccttc ccttggatct 360
 ctagccgaat ctacttgag ccttcta 387

<210> 12343
 <211> 296
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12343

taatcattga ggcttatgg atcatntact ntangaatca aagctagaaa agatgcattg 60
 cttccttttg gaaagactcc attggcatga aattcattca agaattctag cacatctgat 120
 tntatgagat ccataattg ttttaataaaa ttaacattca gtccatctgg acagggcctt 180
 cggactacca caatcccata tagctgcctt aactggatcc tctttgaaat gagccaccaa 240
 caattcatta tgttgccgat caatggacct gaattctacc tcaatctctc ccactc 296

<210> 12344
 <211> 437
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12344

tcttgtgaac tatagctctg agatactgct ctactatcct gttcagcacc tctgtttgtc 60
 catcgctctg cggatggtac gcagagctca tgcgtaaatg agtgccgcta gccttgaaca 120
 gctcttgcca aaacttgctg ataaagaggg ggtccctatc ggaaaccaag cttcgaggaa 180
 tcccatgtat ttttaaccacc atgtcgacga acaaggatgc caccatattga gcagtgtgag 240
 acgttggtaa cattccaga tgaatccctc tcgaaaaacg gtccaccacc acgagaattg 300
 tggtttttgc tgatacgccg gcaggccgac aatgaaatct aacgagaggt cctcccaagg 360

tcgatggngc accggtaagg ggcataatag tcttgcgacg cgttgtgtct ggtacttagt 420
 gacctgacaa tccatgc 437

<210> 12345
 <211> 328
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12345

gcagacaatc gcgttccacg gtttccaacg gcacagcccg atgtaatggc agcgaacccg 60
 ccaagcaggc cgttacacac gtcaatcacg ttccagtggc caaccaataa ccgcttgctg 120
 aacaacgtcg tcagagccgc agtgctccca gccaatgtcg tcgtgacagc tgtcctccct 180
 atagcgctcc attgaccata ataccttcca cttntcatac ccttgctctat tgtcacaaac 240
 gaaccagggt tgaagccgta ccagccgaac cataacataa acgtaccaag cacaactaaa 300
 gacgcgctgt ggccacgtaa agcaaccg 328

<210> 12346
 <211> 347
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12346

aagattactc attgtataga attctgcana gatattctcc attattggca tgaagtcagg 60
 atcttggcac atccaaatac aagaatctga taggtacaat actgtcttca ctgtaccttt 120
 cgggcaatat gaatagaacg ttatgccatg tgggttgaag aatgccccct cagaattcca 180
 aacaatcatg aatgacatct ttacatccta ttcanaattn ttcattatct atatagatga 240
 tgctgtaact gtttctcacg atattgatca atatctttaa catctgtaga ccttcattca 300
 cattatcaaa caaaatggtc ttacgggtct ccaatcgaac atcaatc 347

<210> 12347
 <211> 280
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12347

ctcaagagct tccgtngctc aatttcgaac gtgtcgatat attatgcgcc ggaatctgac 60
atccgtgtca aaagttatga ccattngaatt ttctcgagag acttccgtgt tcaatttcga 120
gcgtctcgat atattatgcg ctngaactcg acatccgagt gaaaagttat ggctatatga 180
atctctcgac agcttcccggt tgttcaattt tgagcgtgtc gatataattat gcgcctgaat 240
ctgacgtccg tgtcaaaaagt atgaccattt gatttctcga 300

<210> 12348
<211> 304
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12348

tgctntcaag aatttcaaat gggtcataatt ttgacacgga ggtcagattc aggcgcctaa 60
tatatcgaga cactcgaaat tgagcaacgg acgctctcga gaaattcaaa tggtcataac 120
ttttaactcg gatgtctgat tcaggcgcat aatatatcga gacgctcgaa attgaacaac 180
ggaaactctc gagaaattca aatgctcata acttttctact cggagggtcag attcaggcgc 240
ataatatatc gagacgctcg aaattaaaca acggaagctc acgagaaatt caaaagggtca 300
taac 304

<210> 12349
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12349

agctnttaac attggttatn taggactntc atcatcagtt attaaccgat gatgaaagta 60
ttatcggtta catcggttnt gttgaaaact gatgttaacg taaaattaca acatcggttt 120
tttaaaatac cgatgttggt agtatctgct aacatcggtt ttttaaaata ccgatgttaa 180
ctaaaaactga tgtaaacgtt ggtagttaac atcggttttt taataaacca gtgttgtag 240
tgtaggttaa catcggtttt ttaaaaaact gatgttggtt gtggatgtta acatcatnt 300
ttttaaaacc gatgttgctt ttaggaattt ttttaataata ctgtctgctt tttcaataaa 360
cccaaaaatt aagctgcana tttaaattag atcacacaac acaacataata taattttcat 420

tct

423

<210> 12350
<211> 310
<212> DNA
<213> Glycine max

<400> 12350

gaccaccata cagacctttg cccttccatg cagcaacctg gagcaatcga gcagcctgaa 60
gcttatgatg caatatatta caatagacct tctcaacctc agcagcaaaa tcaaccacag 120
caaaacaaat atgacctctc cagcaacaga tacaaccttg gatggaggaa tcaccctaac 180
ctcagatggt ccagccctca gcaacaacaa cagcagcctg ccccttctttt caaatgctgt 240
ggcccagcag acatacatctc tcaccaacca acacagcaca cctagaacac caacgtgagg 300
ccctcacaaac 310

<210> 12351
<211> 478
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12351

agctgttatg atctgtgtgc acaataaatt ctctgcccaa taattaatgt ctccagggct 60
gaatacaaaag cacaagggcc atcaattcct tctcatagac agattttgcc agattcccat 120
cagataaaagc tttactgaag aaagcaatag gtcgtctctg ctgcattaga acagcaccta 180
tacctctgcc agccgcatca cactcaactt caaaaggtaa atcaaaattt ggaagaatta 240
gcacaggggg ggaagtcatg atcccttca tctcctcaaa ggcccttgaca gcctctattc 300
cccaagaaaa attgtcttctc ttaatcaatt cggtgagaag ggttgctatt ttaccatact 360
tctggataaa ccttctatta taccctgcga gactcaaaaa accacgtacc cccttcacat 420
tctttggtgt gggccatgcc anaatacact tcaccttttt atgggccact gccacct 478

<210> 12352
<211> 459
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 12352

tctggtaagc tactgggctg agcntttgaa tgactnggaa ggtgccgtag tatctntatg 60
 caagtttctg gtatgggtgcg cccacgacgg tggattggcg tcttggtatg agttttacca 120
 gaaccatgtc tccttcngtg aagtggagtt cgcgatgggtg cttgtctgca agttctttca 180
 tgtgnttggtg ggccttgaac agtttgtgtc gcaagctctt gaacattaag tcgcgatcag 240
 ttaaccaagt gtcgacaacg tctatatttg aatttctcgc cacgtattga ggaaggttgt 300
 ggtggttctt cccaaaggta atctcgtaag gagacatgcc tgtagcggag tggacagagg 360
 tgttgatga ccactccatc cacattanga agcgacccca tgttgagggt ttgtcgtgaa 420
 cgaatgccct gaggtattgt tcaacgactc tatttatca 459

<210> 12353
 <211> 562
 <212> DNA
 <213> Glycine max

<400> 12353
 agcttaagct ccttcaactg cacattgttc ttaatatattg aagagtatcc ttatggaacc 60
 ttcaccgcag gaagacactg acaaaaactt atcttctcct tcttggacaa agtatggcag 120
 gctgggggga agtaaatttt ctcccatca gaccttgat gcaactgtga tcttataccc 180
 atatcaccta gatcttgacg ggtattcaag ccacctctcg tcttgccctg aatgttaaag 240
 agcgtcccaa tcacactgtc acaaacattt ttctccacat gcataacatc aatacaatgt 300
 ctaacgtcaa gatcacacca gtacggaaga tcaaagaaaa tggacctctt ttccatatgc 360
 aactctgact attatcctct ctttgggtct tcccaaatac agtggttcagg tgttgaacct 420
 gctgatatac ctgtcacca gtcaacggtt tcagcgtgtt agaaagcggc gatgcctact 480
 gtagactggt tttcttccat gtttcagttg tatgtaactt gcattttctt cacagatggg 540
 gcatgcatga tgaccttaa ca 562

<210> 12354
 <211> 355
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 12354

ggatgtctca gtcaactcag tagagtctaa gattatctct gctcaacctt tagttgcttc 60
aggttcagac gacagtgatg aggcgaagcc caacgatggc ccaaaacgat gcagcatctg 120
caataagcgg gttggtttga caggatttaa ttgtcgatgc ggtgaccttt tctgtttctga 180
acatcgctac tcagacaagc ataattgccc atttgattat cgcactgctg caaggggatgc 240
catagctaaa gcaaatccaa ctgtcaagcc tgagaaactt gttaagatct agatttgntg 300
tctctacagt tcatgctcta nggtgctagta tgctcattgt ngctctcatg agatg 355

<210> 12355

<211> 453

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12355

cctgcngctg caactatttg ataacagcgg atgatcattc ttgtgtcaaa gctacatcat 60
cttatctgga tcacagacac ttagctaagc tataaatggt catgagtgag cagggtgacca 120
cactgagaag agtggggaat acatgctaata gtcattccac atgtggagta tgagaaggag 180
caaagctaat ttcttcagaa taaccaaagt tctaggaggg ttgttagcct ttggaaagtg 240
gtttgatcag atatgcaatt ggaaaaaccc tctcacatcc atactcattc atatccgttt 300
cataatactg gttctttatc cagagctaata acttccaaca atttttcttt accttttttt 360
ggttggaatt tggaattttc gatggaggcc aagacactct cctcatatgg acacaagact 420
atcacatgct gatgctgctc atctgatga act 453

<210> 12356

<211> 403

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12356

atttccaaga gtgatatcta ttcaaattggc nnatgaatgg gcattcacagg tctattttata 60
tgtgacttgg agacacgaat nnaaagagag ttttcattgc ccaaaaagt ttatcctctc 120
aaaagattaa gagaagtttt ctgaactgaa atgtcttata ctctcaaaaa gattccttgg 180

tcaaccactt gcatattcaa taaggaatat tgattgatct tcattgtaca atctatctct 240
 ttttaagagag atntcttctt ctcttcttct tatttctgaa aagggattaa gagaccgtgg 300
 gtctcttggg gtagaggatt cctgaacaca agggaagggg tgctcctgtg tggtcctaac 360
 tttgtataag gagttttaca cagagagtgg cacatctcaa gtg 403

<210> 12357
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12357

agacacgtta cttggagtaa tgtgggtggg tcttaaatat aatttcaa at gngattttc 60
 atttgttaga tcatgttggg gaatgccaca atttattgag ggaggactat ggacatggg 120
 aatnttttga ggggacatag aagattgcaa cttatacacc tgatcttcag tctttccttg 180
 cagaagaacc gctcctgttg tcaggtcttt tacctcaaaa tgcaaggga aaattcaaca 240
 gacacagagt tagtttgacg taattgagaa acagaaatga gattttgaga gacagaggga 300
 acatagtata ttggaagac gaagagggat ggtaggggtg ttcaattcag ttgagccatg 360
 atgttgaatg aaaagacct tatcattggc aatgtgaagc tgatccggac cagtgcagtc 420
 attggaaatn agagacaatt gatgatgt 448

<210> 12358
 <211> 487
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12358

agcttaatga ggcaaccagg aaagatcatt ttcccttgct tttcatggat cagatgctgg 60
 agcgattagc aggacagtcc ttctactgtt tcttatacgg gtattcagga tacaatcaga 120
 tagcacttga gcctaaggac tatgagaaga caacatttac atgccttttt ggtgtttttg 180
 cctatataag gatgccattt gggttatgta atgcacctgc cactttccaa aggtgcatgc 240
 tagccatctt tgcggacatc ataaagaagt gcatataagt cttgatggac aatttcttag 300
 tgcttggttt atcctttgat tgctgcctga cgaatttaga gatgggtgctg cgaagatgtg 360

tcgagaccaa tctggtacta aactgggaga agtgtcactt catggttcga gaggggatag 420
 tcttggggcca taaaatttca gccccgggca ttgaggtgga taaagcanaa attgacatca 480
 ttgaaaa 487

<210> 12359
 <211> 669
 <212> DNA
 <213> Glycine max

<400> 12359
 agcttgcgtg gcataggcta ctgcacacga tctcacattg ccattatggg ggaaatgttg 60
 acatttttga gtaacattca tggactgagc taattaaacg gatcggcaaa tctggcttac 120
 cttgccatgt gctttgagtt tctctgagtt tttgtttcct ctttttttgt gtaatatagg 180
 gcggaacaaa agaaagaagg aaggcttagc caagtcaaca gaagattcac ttaaaaacat 240
 gagttaacat ttcacatgta tactctcttt cctaatttgg ttttctttct ggtaaaattc 300
 gtgaggaagt cacaataaca aatagttttt cactataaag taattatggt aatatttggt 360
 gtataaaata tttaaaatga gaattttatc ataaaaatat ttgcacttat cttggtaata 420
 aatactggta catgcactaa attatatatc taataagaaa ttcatatgtg tatatcttga 480
 acattgaata tttagaatga gaatgttggt gaactagctg tactcactct cctataaatc 540
 atattttggg tgtgttgta tgttaaaagt ataaagtacc taattttggt gtacaattta 600
 atcgatgatt ctaatgggtc ttcactaat aaaaaatatt aatgtttaga tattccttgc 660
 gaataatac 669

<210> 12360
 <211> 504
 <212> DNA
 <213> Glycine max

<400> 12360
 agcttctgga tatattatgc acctgaatct tactttcgtt tgaaatgtta tgaccattta 60
 aattttctga gagcttccgt tgttcaattc cgaccttctc gatatactat ccgccagaat 120
 cggacctccg ggtgacaagt catgaccatt tgaatttctc gagagcttcc gttgttcaat 180
 ttcgagcgtc tagatatatt atgcgcctga atcggacttc ccggggataa gttatgacca 240

tttgaatttc tcaggagctt ctgttgttca attccaagct tctcgatata ttatgcacct 300
 taatcggact accgtgtgaa aagttatgac catttgaatt tctcgagagc ttccgttgtt 360
 caattccgac cttctcgata tactatacac cggaatcgga cctccgtgtg acaagttatg 420
 accatttgaa tttctcgaga gcttccgttg ttcaatttcg agcgtctcgg tatattatgc 480
 ccctgaatcg gacttccgtg tgat 504

<210> 12361
 <211> 489
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12361

agcttgtagc tctttgtcat tgcaaatcat gcttgcttgg cggtagtagt ggttcacata 60
 agtgcggaacc caggtctcaa ttgcagacca catcaaaagt ccatacgttg cataagggtg 120
 gtcttcaatt aagagctcta caccatttgg ttgtgttggg tctggtaccg ccattccctt 180
 gcgcatgaga tctgcaggga ggccctccat gtcaaagctc caccggtttt tgtatgctcc 240
 acaactgata tccatgcagt agcgcccagg agtaaaacaa gactcaatga ttccatcagc 300
 attgatcagt ttctggcgag ctaaagcatt gatgtctaac gtgtacctca tgtgtggatc 360
 caacagctta aagacacgat gcattgcact taattgccta tgagcaaaca atattaaatg 420
 gttccatgcc cgcattgtgtg cgttacctgt atacaattaa ttaccacaaa ttatcccccac 480
 ancatgcat 489

<210> 12362
 <211> 583
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12362

agcttgaagg caaactggat gcattggttt acttgtttac ccagctggcc ttgaatcaga 60
 aatctgtacc tgtcgcaagg gtttgtggtt tgtgtctctc tactgaccac cattcaggcc 120
 tttgcccttc catgcagcaa cctggagcaa ttgagcagcc tgaagcctat gctacaaaata 180
 ttacaatatg acctcctcaa cctcagcagc aaaatcaacc acagcagaac aattatgacc 240

tctccagcaa cagatacaac ccttgttgga ccttgtggcc tcaataatct taagagggat 300
aggcttagaa tacagaagaa gcaacaccaa tcaatttaac aatgttcttt aaacatgcaa 360
gacacaattg attgcaacan aataaataag ataagggaag agagaatgca aacacagttt 420
tatactggtt cggccacaa ccggtgctac gtccaatact caagcaaccc acttgagatt 480
ccactatctt tgtaaaatct ttaaaagtct gacnccacag ggcaacccat tcttttgtca 540
gatgcttaca acaagagact acagtctctt accaatctca ttg 583

<210> 12363
<211> 619
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12363

agcttgtttg aacttataac aatggtttat gagttatgac cttttataag tttttaacaa 60
cgtttaataa gtttcacaaa atcaaatata atttatttta ataaatttta cagtgatatt 120
tacaatagag ttttactaaa taattgcttg attaagttat ttatctaaat acatccaaaa 180
ctaattgtca ttcataaaac accactaatg tgattgaaat aatttcaaaa tccagtgggt 240
cagaaaataa atgataagga aaggataaaa aactgccttg aaaatttaga gcattgataa 300
caatgaaatg agactagctt tcatgtaatg tcgctaaaga aaaacggatg ttgatagtaa 360
caaaattgtt tctaaaatgc tgggtgcaac aagttatctt tgggtctttc attttcagta 420
tcaagcatgt ggtctgtgct tcaacaagga tggatttaaa ggttgatgaat ttttgtatag 480
gagacattat ccagacaaac acatggtccg tgaaattgta cactgatact ttntaatgta 540
agaaagggtt tcaagttata tctaancaaa ttagattcgt atagcgacan tattctatct 600
atttctttta tttattttt 619

<210> 12364
<211> 550
<212> DNA
<213> Glycine max

<400> 12364

agcttgatga taaaagttag aagtacatgt ttgtgggtta cgactcaaga tccaaggggt 60
acaagctcta taatccaaat agtagaaaga tcgtcataag tcgcgacgtg gagttcgaag 120

aagaagattg ttgggattgg agtgttcaag aagataagta tgattttctt ccttattttg 180
aagaagatga tgaaattgaa taaccaatca tagaggaaca tattacacca cctgcctcac 240
cgacaccaag gctggatgaa acaagttaa gtgagaggac accgcgacta aggagcattg 300
aagagattta tgaggttaacc aaaaacctaa acgacattaa cctcttttgt ttttttggtg 360
tttgtgaacc tctaagctat caagaagcag cgaaaaacat aaagtggaaa gacaccatgg 420
acgaagaat caagtcaatc acgaagaatg atacgtggga acttactaca cttccacgag 480
gacacaaagc aatcggagta agatgggtgt acaaggcaaa gaagaatgct aaaggagatg 540
tggagagata 550

<210> 12365
<211> 609
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12365

agcttcttgt ggttgaagaa cttgctccag tcggtgttga agaggtggcg acatggcgtg 60
ccgcggtaga tgtggtggaa gcgccactca acgccgtgga tgtcggcgac agagaggagc 120
tgataggtg gatcggcata aaagtcgagt ggaggaagc acaagtcggc gcaaaagcac 180
ggcacggaga agccaccgct gttgttgcg tcggaggagg tgaggatctt cacaaacgaa 240
acgacgccgt tggctctcgc gtctttatca tcattgtcat ttcgaacctc cttggtgttg 300
ttttgaaaag gttgttgttg tgattgttag aggggagtga ggaggaactt ggcggggaca 360
aaggggagag agcggataag aggggtgttg taatgcgagg gagaggcatg ctccatgtga 420
ccctangcct aggggaagca gtaaaccta ttcacacatt aattttggga atgagaacga 480
agacgagtn taagtaaac ccgtcgtaat ttccattcca ttaaattaca agattgccaa 540
caacatacat tctaagacgg tnttgtataa tcacctaga atgttagtca taaaagatt 600
ttttattta 609

<210> 12366
<211> 505
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12366

agcttggaca atggcagggg gtcgcaacct acccttcgac gggaggggca cacaagggct 60
cacgggtgcg tcttccaagg gaggaaggcg cgcggagtcg ccaccaatgt tggttaagtt 120
gtttttatct ttttttttgc aagatatatt ttaaccgaac aaaagtcgtt taaggcgttg 180
gaccattaaa cgatcttttg attcttttga aaggagagaa acgttaaggc gttggaccat 240
taacgatctc tgggtagaga aacgttaagg cgttgaatca ttaacgatct ctgggggttg 300
tcgacaaaag cgggggtttt gctcctacgt atcctcaatt gcgatgagga aatcagacct 360
acgtagtctt tgcaaaagcg gtaaagttat gtgttgattt tatgcttttg aacggtccat 420
gttaactgat aaaagcaaaagg aggaccgttt aaggcggttg actntaaaac ggtttcaagt 480
gatttttgca gacaaagctt gattt 505

<210> 12367
<211> 385
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12367

gtataatata tgtatgagca catatgtaaa atagagtata tcagattcct cttaatctca 60
agaggatcaa aatacctcac gctcagtaat ggggtaacga caagagtgc accgaaagca 120
gtctggatga aaataattat gaccaactcc taaacaattg ccatagagta tctcttggtt 180
gcaccctcca catgttctat tatgcgattg catactgcac attaccagtt gtcaataaga 240
aatgattgag cacgggtcgc ataatgcatt agcatcaca gaatgaaatc aaaattaatt 300
acatgtatgg agaagtcaac agagaaatca aaacttattt taannatttg ttcaaattta 360
tgctaacaac acaatgacat acata 385

<210> 12368
<211> 333
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12368

ttcacaatc atctataaaa acttgctaag ccaggaaaac tcttcacctc agtcacagac 60

ttaggtgtag gccattcttg aatagcccta accttcattt caccaaactg cactgcctgt 120
 gaacttacaa cccatcccag aaacacaaca tggctagtac aaaagatgca tttttcaacg 180
 attggcatat aattgttctt ctctacgcac acacaggaca aattntatat gatcaatatg 240
 caaagtctgt gaagcgctgt agacaataat atcatcactg tacaccacaa tgaactttcc 300
 tatgaactct ctcaagatat ggctcattaa tct 333

<210> 12369
 <211> 294
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12369

gagtcccgctc atatatcgag acgtctcgaa atgaatgttg atgctctgag caaactcaaa 60
 cgacaataat atttacttgg atgtctgatt gagtcccgctc atatatcgag acgtctcgaaa 120
 atgaatgttg atgctctgag ccaattcaaa cgaccataac tttttactcg gatgtctgat 180
 tcagtcccgct cacatatcga gatgtctgaa attgaatgtt gaagctctgg gccaattean 240
 acgacaacaa cattttactc ggatgtctga ttgagtcctg taacatatcg agac 294

<210> 12370
 <211> 313
 <212> DNA
 <213> Glycine max

<400> 12370

cttgacgact gcatataact ttatctgtcc gccatactac atgaaactca cagaatcctg 60
 catgaaagac cgcactatgc gacaacaatg cggcacagtg gatgaaaatg gcgccacata 120
 gggaagagct ggtatgat atctgaagtctg tatctggaaa gatagcacat gcgtggaata 180
 ctcatatcct cttcttcctc aacatctgct caaagttatc agccacaacc gcctccgcaa 240
 tctgggtact acagtcacac aaaagcaggt catggtacta attcctatgt ttgcgcataa 300
 catcaagcta cgc 313

<210> 12371
 <211> 236
 <212> DNA

<213> Glycine max

<400> 12371

atggtgatgt ggatgatttc tccagaatga cctgggtcaa ctttatcaga gagaaatcag 60
aaacctttga agtattcaag gagttgagtc taagacttca aagagaaaag gactgtgtca 120
tcaacagaat cacgagtgac catggcagag agtttgaaaa cagcaggttc actgaattct 180
gcacatctga aggcacact catgagttct ctgcagccat tacaccacaa cagaat 236

<210> 12372

<211> 616

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12372

agcttgagaa gtaaatttgt ttttgccaca taaacttcga aaatgtttat ggattcagaa 60
atattattaga cacatataaa ttgatcaaat taggtgtaca aattaagggc cctatcaatg 120
aaatccaaaa atgatttaaa agtatagatt aatatacaat tagtgatttg agttaatagt 180
tattaattaa tttntaatt ttaattttta atttaaaatt aacaacaaat taattgttta 240
taactctaga gaatgccacg tgtcaacatt tttttttata gaaaatattc ttgtatgtat 300
agactataga ttatatccgt aacaattgaa gacggatatc acaagtttta ctacaattta 360
tatacattgc ttaactaatt gagcgagaca tatgacaaaa tatagaaata attattttta 420
ataaaaaatag aaatataaca cattttctat tgtgttttaa ttaaaatata gaaaaattat 480
aattctttgt ataacattat agtttattgt aaacaatatt tttagtatat attatgtgtg 540
tgtatcatta aaaacaataa tctaaattat gacatattnt ttggtagaat atggttctca 600
tatatcaatg ataact 616

<210> 12373

<211> 388

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12373

ctcttccta ttaagatccc ttaagaagct agagcttcgc tacttatacc tctctaatag 60

ctaagctcac ctcttgata tgagaagcta gagcttagct acacaccccc tataatagct 120
aagctcacc ccatgacaaa aaacatgata ataacaata atagtcctta ttacatagac 180
aactcanaat gccccgaaat acaaggctaa aacctctac tactagaatg gccaaaatac 240
aaggcctgga cgaaggaata acctattcta atatttaca agataagcgg gtcatactt 300
agcccatggg ctcaaaatct accctaaggc tcatgagaac cctagggcct ttccttgat 360
ctctagccca atctacttgg agtcttct 388

<210> 12374
<211> 279
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12374

ctccgcttaa catcagacca cttccaggtg ctggaactac ttctcatgga cttgatgggg 60
cctatgcaag ttgaaagcct tggaggaaag aggtatgcct atgttggtgt ggatgatttt 120
tccagatata cctgngtcaa ctttatcaga gagaaaacag acaccttga agtattcaaa 180
gagttgagtc taagacttca aagagaaaaa gactgtgtca tcaagagaat taagagtgc 240
catggcagag agtttgaaaa cagcaagttt actgaattc 279

<210> 12375
<211> 546
<212> DNA
<213> Glycine max

<400> 12375

agcttatgct gcaaatattt acaatagacc tcctcaacct cagctgcaaa atcaaccata 60
gcagaacaat tatgacctct ccagcaacag atacaacct ggatggagga atcacctaa 120
tctcagatgg tccagccctc agcaacaaca acagcaacct gtccttctt tccaaaatgt 180
tgctggccca agcagaccat acattcctcc accaatccaa caacaacaac agccccagaa 240
acagccaata gttgagacct ctccacaacc ttcctcaaa gaacttgatg ggcaaatgac 300
tatgcacaac atgcagtttc aacaagagac cagagcctcc attcagagct taaccaatca 360
gatgggacaa ttggctaccc aattgaatca acaacagtcc cagaattctg acaagctgcc 420
ttctcaagct gtccaaaatc taaaaaatgt caatgccatt tcattgaggt cgggaaagca 480

gtgtcaagga cctcaaccg tagcaccttc cttatctgca aatgaacctg ccaaacttca 540

ctctac 546

<210> 12376
<211> 412
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12376

ccctgaacag gcaattatcc tctgtgtatg caaggggtgg gatttttgaa gaagtacatg 60

ccatggacgt gtccgaacat ttgtttcagt gtgaagaata gtaaaatctg gagtgggcag 120

taccaagct tttgtcatta attcctttaa cttgcaaata ctttgtgtgc ctctgagtgc 180

cacgagagtt gatccttgca aatgagagat gttaaagggt ccacgatggc gacatagccc 240

tagattaatt tttggcaaaa ccctatcaga cccaagaatc cttttaaagt atgaggagaa 300

gtaggggagg ccaatccacc atgacctgta ttttatcang gtacgacgtg acaccctgga 360

caaataccat gtgtctgaga tactacagtt ggggtgtgggt gaanacacac tt 412

<210> 12377
<211> 361
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12377

tccatttgtt taatctntca taccacgccc taggtgcctt gtttaacca tagatagctc 60

tcttgagttt gcagaccata cttntatca gaatcagcaa atccaggtgg ctgggtcatg 120

tagatttctt ccaaatagcc attaaggaaa gcattgttca caccaattta ctgaatagac 180

cagtgatgag caagagcaat agtcaacatt attttgatng tgacaggttt cacagcaaca 240

cgtggaaagg tttctgaata atcctgacta gttatttgat taaatccctt ggcaaagcta 300

ctagccaaca gattgaagaa cgtcatgccg ttcacatag acaaaaggca atctgcattc 360

a 361

<210> 12378
<211> 585

<212> DNA
<213> Glycine max

<400> 12378

```

agcttgaagg caaactggat gcattgggta acttggtaac ccagctggcc ttgaatcaga   60
aatctgtacc tgtcacaagg gtttgtggtt tgtgctcctc tgctaaccac catacagacc  120
tttgcctttt catgcagcaa cctggagcaa ttgagcagcc tgaagcttat gctgcaaata  180
tttacaatag acctcctcaa ccttagcagc aaaatcaacc acagcagagc aattatgacc  240
tctccagcaa caaatacaac cctggatgga ggaatcacc ctaacctcaga tggtcagacc  300
ctcaacaaca acaacaacaa gcctgctcct tccttccaaa atgctgctgg cccaagcaga  360
ccatacattt ctgcaccaat ccaacaacag caacaacccc agaaacaacc aacaattgag  420
gcccctccac aacctttcct cgaagaactt gtgaggcaaa tgactatgca gaacatgcaa  480
tttcagctag agaccagagc ctccatttat agcttaacca atcaaatggg acaattggct  540
acccaattga atcaacaaca gttccagaat tcttgacagc tggct                    585

```

<210> 12379
<211> 443
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12379

```

agttctccata canagtcagg ttaacgatta ctgcctgtg ctnntttcttc catgctatat   60
gtagcanagt cattgatcca gtcattgttg atgagttgga aaatgaggcc gcaattatac  120
tgtgccagtt ggagatgtat tttccccctg ctttctttga catcatgatt cactttgatt  180
gtgcatctgg tcagagaaat caaatgttgt ggtcctgttt atctatggtg gatgtaccgc  240
gctgagcgat acatgaagat cttaanaggg tatacaata atctatatca tccagaagca  300
tctattgttg agaggtagat tgcagannaa gccattgaat ntttttcaga atacttagag  360
aaggctaaac ctgttggcct tcttgagtct cgacatgatg acagagtggg tggtaagggt  420
tcaagaggac tgcattgtgat cac                    443

```

<210> 12380
<211> 528
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12380

agcttgatac aagattctcc ttgcttggtc cttcattacc ttctggntgg gtcatataga 60
tgtcttcttc taaatcccca tgcaagaatg cagttttaac atctaaactgc tccaagtga 120
gattctctgc agctactatg ctcagaataa ctctgatggt agtcatcttt acaactggag 180
agaagatctc tgtgaaatca attccttggt tctgctgaaa ccttttcacc acaagtctcg 240
ccttgatatc tcttctaccg tcagattctt cctttagcct atagaccac ctattctgta 300
atgccttctt tctctctggc aatttagtta aagaccacgt cttattcttt tgaagggatg 360
tcctctcttc tttcctcgtc agctccact caatagtgtc attccctgt gtagcctcat 420
tgaaacattc tggctcacca gcctcagtta acaacaaata atgcaatgaa ggggaatacc 480
tatctggtgg tactgaaatt ctgctatatt ttcttgagg agttgatg 528

<210> 12381

<211> 369

<212> DNA

<213> Glycine max

<400> 12381

agcttgtaag atttgcaaga atttcttctc tgtacaactc cttgaaaatt attgccatca 60
atataaagat atgacaattt agagagtgat ccaagacttt caaatggatt tccactgaat 120
ttattaaaag agagagagag agattttaaa tctatctccc ttaagttgct gagattaccc 180
aaaaaagtcg gaattgttcc ttcaagttga ttacgtgata aatcaagttc aacaagagaa 240
gtcaaatttc ccgaagaagt tggaatggtt ctttcaagtt gatttatatga caaatcaagt 300
tcaacaagag aagtc aaatt ttccggggca tcagaaatag tcccatgcaa gttgctggaa 360
cttaggtcc 369

<210> 12382

<211> 359

<212> DNA

<213> Glycine max

<400> 12382

cgcatgcaag cttccacttt taagggataa cacatgaaca gcgctaggca atgacattca 60

tgggtgctccg aacaaagggtg gagtatggag gattgccttg aggggtccgca cttatgcaat 120
 catgaaactc agctccaaac ttgaaagtgg aggacacatg aacaacccta agcaataaca 180
 ttcatgtggc tccgaaaaag gatgagaatg gaggattgcc ttgagggtag tctcttaggc 240
 aatcatgaaa ctcatctcca aactcaaaag tggaggagac atgaacagcc ctaagcaata 300
 acattcatgt ggctccggaa aaggatgaga atggaggatt gccttgaggg tctctcttt 359

<210> 12383
 <211> 444
 <212> DNA
 <213> Glycine max

<400> 12383
 aaaatggcct cagcaaactt cttaatctct atggaaattc aatcaatagg cctccaatct 60
 ttaatggaga gggttaccac tactcgaaaa cccgaatgca aatttttatt gaggcaatag 120
 acttaattat ttgggaagcc atagaaatag ggtcttatat atccaccaca gtagaaagaa 180
 ttacaataga tggaagcaca tcaagtgaat gcataacaat agaaaaacct agagatatag 240
 ggtctgaaga ggataaaaga cgagtacaat acaatttaaa agccaaaaat ataattacat 300
 ctgcctcgcg aatggatgaa tatttcaggg tttaaattg taagagtgtc aaggaaatgt 360
 gggacactct aacttaaca catgaaggaa caacatatgt taaaagatct aggatatata 420
 cattaactca tgaatatgaa ctat 444

<210> 12384
 <211> 440
 <212> DNA
 <213> Glycine max

<400> 12384
 tgctacaaac atctacaaca gacctctta atttttcagc aaaatcagcc acaacagaat 60
 aattatgacc tctccagcaa caggatcaat cccgagtggg gaatcatccc aaccttagat 120
 ggtcgaatcc ttcacaacaa cagcagcaac aacaacaacc ttattttcaa aatgctgctg 180
 gcccaagcag accatacgtt cctccaccaa tccagcaaca acaacagcaa cagcccaaaa 240
 aacagcaaac agttgaggct cctccgcaac ctccctaga agaacttgtg aggcaaatga 300
 ctatgcaaaa catgcagttt cgacaagaga ccagagcttc cattcagagc ttaactaatc 360

agatgggaca attggctaca cagttaaata aacaacagtc ccagaattct gacagaatac 420
cttctcaatac tatctagaat 440

<210> 12385
<211> 229
<212> DNA
<213> Glycine max

<400> 12385
aaaccgaagc tcctagcaaa ttccaacgac aataacgggtg cactaagaag tccgattgag 60
tcccgcagga tatcgagacg ctcgaaagtg aaaaccgaag ctctgtagca attcgaacga 120
caataactgt tcctcggaa gtccgactga gaccgcgaat atatcgagac gcgcgaaatt 180
tagaaccgaa gcttgaggca aaagcgaaca acaataacaa ttcactcga 229

<210> 12386
<211> 312
<212> DNA
<213> Glycine max

<400> 12386
cttccgactg aaaacttatt gtcgttcgaa tttgctacga gcttcgggtt taaatttcta 60
gtgtctcata tatattccgg gactcaatcg gacttccgag tgaaatgtta ttgtcgttcg 120
aaattgctag tagcttcggt tttaaatttc gagcgtctcg atatatttcg ggactcaatc 180
ggacatccga gtgaaatggt attgtcgatc gaatattgct acaagcttcg attttaaatt 240
tcaagcgtct cgatatatta cgggactcaa tcggacttcc gagtgaaaag ttattgtcgc 300
tcgaatttgc ta 312

<210> 12387
<211> 414
<212> DNA
<213> Glycine max

<400> 12387
gtgcagacta agtgctcacc aacactagat aagaatttct tggttgtttc atgaaacctc 60
tgatgctaga tcaccattca ggaatgccat ttccacatcc attggatgca gcttatgate 120
aaaatgagct actaatgcc aattactcg aagagagtct ttcttagata caggggaaaa 180

agttctctctg taatcgaatc cttctctttg agtgaatcct tttagcaacca gtattgcctt 240
 atgtctctca atggtgcctt ctgagtattc ctttgttggt aagacccatc tacatccgat 300
 ggctttttaca ccaacaggca actcatcgag atcccaatct tgggtagatg ccatagaagc 360
 catctcatct ctcatagcat tataaccacaa agttgattcc ttagaactca tggc 414

<210> 12388
 <211> 371
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12388

gcatgcaagc ttagaagaaa agcncctgttt ctgagatttg tgggattttt tgangnnggg 60
 ctaggntacg tagggcaata cagccccaac gtgagatgga tgcttcttgg ttaatgtggga 120
 gagactgatg cagggtctttt ggaattctct aagggtctgc ccagtcttca gaaacttgaa 180
 atgagaggat gctccttttt cagttagtat gcactagcta ttgctgcaac tcaactgaat 240
 tctctcaggt acctatgggt gcaagggtat agtgcatctg catctggacg cgatcttctg 300
 gcaatggctc gccctatttg gaacattgag ctgattcctt ctagaagcgt ggtgtttagc 360
 aatcagcaag a 371

<210> 12389
 <211> 393
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12389

tggtgatcag tcaggatgat gaaaggatga ccataaagta tgggtgccac ttgagtattg 60
 cagttgtaat tacatgaagc tcacaaacat aagtagaagc ttgttatagc ctgnnggcaca 120
 attgcttggt tatgggtggg gagttctgta acaggactgc tcctatggcg gtgccggagg 180
 cgtcgggttc aatgggtaaat tgaattgtaa agtctggagt ggtgagggca ggagcttggt 240
 tcatgatggt ttttaattgt tgaaaagctt cttgagccgt gggactccat gaaaatttgt 300
 ccttacacaa gacgtagtt aacggtgctg ctatggcggc ataacttctg atgaattttc 360
 gatagaatcc tatgaggctc atgaaacttc tca 393

<210> 12390
 <211> 401
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12390

```

ngaaggcaaa ctggatgcat tggtaaactt ggtattctat ctgaccttga accagaaatc 60
tgtacctgtt gcaagggtct gtagtttgtg ctectctgct gaccaccata cagacctttg 120
cccttccatg cagcaacttg gagaattga gaagcccgaa gcttatgctg caaatattta 180
caatagacct cctcaacctc agtagcaaaa tcaaccacag tagaacaatt atgacctctc 240
tagaaacaga tacaacctg gatggaggaa tcacctaat ctgagatggt ctgacctca 300
gcaacaacaa cagcagctg ctccctctt ccaaaatgtt gctggcccaa gcagaccata 360
cattctcca ccaatccaac aacaacaaca gcccagaaa c 401

```

<210> 12391
 <211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12391

```

nntgacggac tatacttagc tctaggcacc agggatggat aaagatctat atataggctg 60
gctaagggtg gagagaggaa gactagagat ttggatcaag taaagtgtgt taaggatgaa 120
gaaggcaaaag tcttagtgca tgaaaaagat atcaaggaaa ggtggaaggc gtatttccac 180
aacttattta atgatggata tggatatgac tctagcagtc tagacacaag agaagaggac 240
cggaactata agtactatcg tcggatttag aaacaggaag taaaggaagc attgaaaaga 300
atgagtaatg gtaaggcggg ggggccagac aacataccta ttgaagtgtg gaaaactctt 360
ggagatagag gtcttgatg gctcaccana ctctntaatg aaattatgag gtcaaaacgc 420
at 422

```

<210> 12392
 <211> 357
 <212> DNA
 <213> Glycine max

agctngagag ccttccaaag ctttcaggna atcttgccac acaagnggcc tccatgaaga 60
agtgcacacag agaagccaaa gancctatag aagctggaag ctgcgtgagc attttacatt 120
tgttcaatct taaggtgaca agattttcta gccatccaat ggactctggc aattccctga 180
tatttccatt gaacatgttc agtgtagtaa gaaatgctag gcggccaata gattctggta 240
aatattcaag atttttgcaa ttcatcatct caagtttctt caataatttc atctctccaa 300
tctcatctgg caaatctgtg atggttggtc catctaactg aagctcaaca actgaag 357

<210>	12393
<211>	366
<212>	DNA
<213>	Glycine max

```
<223>      unsure at all n locations
<400>      12393
```

[illegible]

<210>	12394
<211>	363
<212>	DNA
<213>	Glycine max

<400> 12394

agcttgaag	gtagtcatac	cttataaaat	atatatatgt	ttgtttaggt	agaaagatac	60
cttagatatg	catgtatgta	aacaaaaaaa	tacttcacaa	aatatatata	tgtatgttta	120
ggtagaaaaga	taccttagat	atgcatgtat	gtaacaaaaa	aatacttcac	aaaatatata	180
tatgtatggt	taggtagaaa	gataccttat	atatgcatgt	atgtaaacaa	aaaaacactt	240

cacaaaatat atatatgtat gtttaggtag aaagttacct tctatatgca tgtatgtaac 300
 aaaaaatact tcacaaaata tatatatgta tgtttaggtg gaaagatacc ttagatatgc 360
 atg 363

<210> 12395
 <211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12395

tcctcttaca gacagcaaan aagaatgttt atatggataa ccactcgagt acttccctcc 60
 cgtcagcgtg actcaaatgt cagtatgaca gatcttgtga gcgcggaaga tgacataaat 120
 ctccgcgtgt caacgggctt gtcggccgcg attgacgaag ggcgacagaag acgacgtag 180
 tctctgcgtg ctatcaggct ttctgtctta ccgacagcaa aaaagttttg aaagtgcgga 240
 caaccacttg ggtatctccg catgtcacgt gactccagt ccagcatgac agaacttgtg 300
 aggggtggccg acaaaaagtga ggctcttgc cctacgtatc ctccaatgag gaactcagac 360
 ttacgtagtt cttgataact tgtgagactt gaaaaagtc 399

<210> 12396
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12396

tgcacccgtt gcttgttgtc agggatgatgt ttctttctca acagtcttgc tcctatcttg 60
 atttccatt tgcacgtac caaagtcacc gctttggtag gatgagaaga aacttccatg 120
 tggagtaaca tggaaggagg caccggaatc gacaatcaa gagctatcat cacaagcaat 180
 gtttaggata ttaccttcac caacagata taacaaatct tcttttgaaa ctacggcagt 240
 agtattcttc ttttctttct tctttgttgg gctgacttgg tctggcttaa cgttaccgat 300
 tgtttgatct ctcttgaagg attgacatc tattttcttg tgcccacatc ttccacagta 360
 gtagcatgta attntttagc gtgatttga tctacctga gaatgatgag aatctcggct 420
 cttaatacgt ccacgagtct cattcata 448

<210> 12397
 <211> 290
 <212> DNA
 <213> Glycine max

<400> 12397

atttgcaaaa gccaaatgag atagctgtat acctgcacag ttgagatgaa attttaaatac 60
 ggcacatccc ttgaggctgc tcatatctct ggaaaagtac tccaaacaga gctcaaacag 120
 attaggggag agaggatccc cttgtctaag accccgctgt cctttgaaac gaccatttat 180
 ggatccattg actgccacac taaaggaagt agaagaaaca cattccatga tccaagtact 240
 gaaatgatct gggaagccaa tggacttaaa catccattcc aaaaattccc 290

<210> 12398
 <211> 363
 <212> DNA
 <213> Glycine max

<400> 12398

cacctgcagc tgcagcttct ctccccacat ttttctgagt ctoggagtag caaaggagat 60
 gcacttgcca caattactaa cgactccaaa ttatcatgat tctcaatag ttcagttatc 120
 aattctacaa tccgctgatt gattctccac aacttctgac etagattggc atcttttgga 180
 atccatggct gcaattcctt ctcggcctga caagcaacaa gtcaggggat gaaaaatgaa 240
 atattgtaaa aaaatctaca aaatggaagc tgatttgga cacagggttag atgagctctt 300
 ctgcataaga tattttaaact ttctatacat taaaagctat gtctcatgtg ggaattaaat 360
 atg 363

<210> 12399
 <211> 357
 <212> DNA
 <213> Glycine max

<400> 12399

agcttgaaag atttctcaag atccggtggt tgcttaggga ctggatgtag gcacgggttg 60
 ttgccgaacc agtataaaat tcttggtgtt ttcttcttct tccatacact ttttaatttc 120
 cgtgtgttac tttactttta tgctttactt ttgtttaagt tacataactt agtagtaaa 180

cctaattgaa tctagtaaca ttaagaagga tcagttttaa ttagtcaagg ttacttaata 240
 attaatccaa cccccctatt ctcaattact ccaaggccac ttgateccaac acattgtacc 300
 ctgagcaact gccagttagt tcttcttctt tttcttttct tttcttaaga gttgaat 357

<210> 12400
 <211> 358
 <212> DNA
 <213> Glycine max

<400> 12400
 agctttgaat gctctattca atttagttga caagaacatc ttcagactga tcaacacttg 60
 cacagtggcc aaagatgcat gggagatcct gaaaatcact catgaaggaa cctccaaagt 120
 aaagatgtcc agattgcaac tcttggctac aaaattcgaa aatctgaaga tgaaggagga 180
 agagtgtatt catgacttcc acatgaacat tcttgaaatt gccaatgctt gcactgcctt 240
 gggagagagg ataacagatg aaaagctggt gagaaagatc ctcagatcct tgcctaagag 300
 atttgacatg aaagtcactg caatagagga ggccaagac atttgcaaca tgagagta 358

<210> 12401
 <211> 364
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12401

agctttgaat gctctattca atttagnngt ttataaatc ttcagactga tcaacacatg 60
 tacagtggcc aaggatgctt gggagatcct gaaaaccact catgaaggaa cctccaaagt 120
 gaagatgtcc agattgcaac tattggccac aaaatttgaa aatctgaaga tgaaggagga 180
 agaatgtatt catgacttcc acatgaacat tcttgaaatt gccaatgctt gcactgcctt 240
 gggagagagg atgacagatg aaaagctggt gagaaagatc ctcagatcct tgcctaagag 300
 atttgacatg aaagtcactg caatagagga ggccaagac atttgcaaca tgagagtaga 360
 tgaa 364

<210> 12402
 <211> 382
 <212> DNA

<213> Glycine max

<400> 12402

agaccctaata cgactgagct gcagctttga gcacttggtt tgtaatttac aacgagatga 60
tgcgctccat gagagggttg atcaaatgga gaatagagat cataatgaag aagaaaggag 120
gagaagaggg aatgatggta ttcttagaca aaaccgaatt gatggtatta aactcaacat 180
tctccattt aaaggaaaga atgatccgga ggctacttg gagtgggaga tgaaaataga 240
gcatgttttc tcatgcaaca actatgagga ggacaaaag gtgaagcttg cggccacgga 300
gttttccgac tatgctcttg tgtggtggaa caagctacaa aaggagagag catgaaatga 360
agaggcattg gttgatacat gg 382

<210> 12403

<211> 358

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12403

agctttgagt gcttgcctct ttaatcacga aaaaattact tttctcagat aaaagaagat 60
taaaaaaagt ggtttgaata aaaagggttg tcttctgtag ttaaataga aaacctgttg 120
atgcaaaaaca aaagaagtgg ccaacaaaga agaagaacat ggctaattaa taaactaac 180
tcacaaaaca cataatataa tatccaaaat aatatggcac agttctacaa atttaccttg 240
agactcatct tgaccatctt tactttgttt tgggtgccact ccaaaatcag ctagaagagc 300
ctcaagctct gcaagntcct tcttcttctt ttctttttta gagagctgcc tttctgtc 358

<210> 12404

<211> 356

<212> DNA

<213> Glycine max

<400> 12404

agcttgacaa aattctgaga tttcttgcca gagatttttc ccttctgttt tctgcaaaac 60
atgaagtggg gtcaataactt gtaatatcac aatgctctat ttgtaaatac cacaccttc 120
ttttatgttt catatttcaa agaaaaggaa tgtaataaat gttaggaagt cccacatgtc 180
tagttcttgg gatacaactt atatctctt tggataactt cacttagtgt caattggttt 240

taagttgaga tctaacatag tatcaaagtc tatagcccat cttagttctt gectattcca 300

gaggcaggcc tctgtgtagg ggtgttagga agtcccactc agtgtcattg gtttta 356

<210> 12405
<211> 449
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12405

tgagttnnnt ttaaaatcat atttagctaa atggtgatac catgaacttt aaaaaaaacc 60

tattaagtct gatgaaccga cctgtttagc aataatattt tatattaaag atattattat 120

taatatgata tatagtataa ttattatatt taaattataa aattatttta gtagtgtgac 180

aattttaatt agtgtttgaa atatcttaat tcgtataaat ataaatgtgt agcaaaaaata 240

tacattcttt tcttttggtg agacttaaaa gactttagta atatgtcacc cacaatgttt 300

tcccatattt tattgtttaa aattgtctta ttatttttaa taaaaatatt tggttntgct 360

taaaagataa tactttntta cactttttta tatgaaacaa acctttaaat ggattaattg 420

gcctaaccaa cttatacaaa agctaagtc 449

<210> 12406
<211> 342
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12406

tctcgatata ttatgcacat gaatcggacc tcnattgaca agnnanggcc annngaattn 60

ttcgagagct tccgctgctc aatttcgagc gtctcgatat attatactcc tgaatcggac 120

ctccgagtga aaagttaaga ccatttgaat ttctcgagag ctccggttgt tcaattttga 180

gcgtctcgat atattatgcg cctgagtcgg acctccgagt ggcaagttat gaacatttga 240

atctctcgag agcttccggt gcttcaattc gaccgtttcg atatattata ctccctgaatc 300

ggacctccga gtgaaaagtt atgaccattt gaatttctcg ag 342

<210> 12407
<211> 365

<212> DNA
<213> Glycine max

<400> 12407

agcttcctca attcttgtgg atttatgctc tttagacggc tgcgtatata ttaaatcgag 60
ttccaaccaa ggctgtctca aggacacctt ttgagttatt caagggttgg aaaccaagtt 120
tgtgacatat acgcgtttgg ggatgcccgt ctgaagtaag aatttataat ccacaagaga 180
agaaactaga ccctaagact attactgggt atttcattgg atatgctgaa aggtctaaag 240
ggtatagggt ctattgtcca tcccacaaca ctaggattat ggaatcaagg aatacaaagt 300
ttcttgaaaa tgacttgatt agtgggagtg atcaatttca gaacatttct tctgaaaggg 360
atcac 365

<210> 12408
<211> 357
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12408

agcttgctta ctgtcttcgt ttctcaagaa cttctcggnt ttctgagta gcttatagaa 60
aggcttcggt tttctacga gtttcgaaag gaacctggac aaaaacgccc atctaccatt 120
caacttttga acttctctga tgttgtagg actctgcatt tccaatattg ccgtacactt 180
gtttgggttg gcttcgatcc cttggtgggt gatcatgaac cccaagaatt tttcaactgc 240
gaccccaag gtgcattttc aggggttgagg catatgtcat atttacgggt ttctccaaat 300
acttcttca agtctgctac atgttgggcc acactataag acttgataac catgtcg 357

<210> 12409
<211> 347
<212> DNA
<213> Glycine max

<400> 12409

agcttgatt tcctttgctc ctgaaacctc tccttttca tgtgaacca aaaccaatct 60
ttgggttga aaacaacctt ttgcgcccc ttggttgcatt gtttagcata gctctcatc 120
ctcttttcaa tttgggcctt gactctttca tggagctttt tcacatagtc cactttggct 180

tgctcttctt tatgctttaa aactgaaata ttaggctttg gcaacaaatc aagaggagtt 240
 agtggattga aaccataaac aacctcaaaa ggagaacaag tagtgggtgct atgcacagtc 300
 ctattataag caaattcaat gtgaggtaag caaacttccc aattttt 347

<210> 12410
 <211> 370
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12410

nganattgaa caaggggaagc tctcgacaaa ctctattgat cataacttat cacacggagg 60
 ttcgattcag gcacataata tctcgagacg ttggaaattg aagaacgaat gctctccaga 120
 aattcaaatg gtcataactt gtcacacgga ggtccggttc aggcgcataa tatatcaaga 180
 tgctcgaaat tgaacaacga atcctctcga gaaattcaaa tggtcataac ttgtcaaaaca 240
 gatgtccgat tcaggcgcgt aatatatcca gacgctcgaa gttgaatata ggaagctctt 300
 gagaaattca aatgggtcatt acttgtcaca cggaagtccg attctggcgc atcacatata 360
 gagacactct 370

<210> 12411
 <211> 457
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12411

tatgctgcga acatctacaa tagacctctt caacctcctc agcaaaatca accacaacaa 60
 aacaattatg acctctctag caacaagtag aaccccggtt cgagggaatca tcccaacctt 120
 agatgggtcga atccttcaca acaacagcaa caacaacaac aaccttattt tcaaaatgct 180
 gctggcccaa gcagaccata cgttctctca ccaatccaac aacaacaaaa acagcaacaa 240
 ccccataaac aacaacagct tgaggctcct ccgcaacctt tccttgaaga acttgtgagg 300
 caaatgacta tgcaaaacat gcaatttcaa caagagacca gagcctccat ttagagctta 360
 actaatcaga tgggacaatt ggctacacag ttaaatcaac aacagtccca gaattctgac 420
 agattatctt ctcaatctgt ccagaatccc aaaatgt 457

<210> 12412
 <211> 354
 <212> DNA
 <213> Glycine max

<400> 12412

agcttgaaga caaactggat gtattgggta acttggtaac ccaactggcc ttgaatcaga 60
 aatctgtacc tgtcgcaagg gtttatgggt tgtgctcttc tgetgaccac catacagacc 120
 tttgcccttc catgcagcaa cctggagcaa ttgagtagcc tgaagcttat gctgcaaaca 180
 tttaacaatag acctctctcaa cctcagcagc aaaatcaacc acagcagaac aattatgacc 240
 tctccagcaa cagatacaac cctggatgga ggaatcacc taatcttaga tgggtctagcc 300
 ctcaacaaca acaacagcag cctgctcttc ccttccaaaa tgetgctggc ccaa 354

<210> 12413
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 12413

catggacgaa ttgcagtggc cataatgata tcacagtaag atcttgatga gcctcaaggc 60
 ataaagaact tagtgaatat catatacaag cagatcaaag tagaagcctt cacagtttat 120
 gattactatc acctctatgc taaattcttg gatactgttt tgccttacat tagggaaggg 180
 aagataacat atgttgaaga cataactgag ggtcttgaga acggtccaat ngcactagaa 240
 gcaatgttcc aaggtcgtag tgctggtaaa caagtcatta tacttgctcg tgaataaatt 300
 agtacaacct tactggttga tctttcanna tcattttggt tgtgntgca actctcactt 360
 tgagaggttg ttgagtaata aacaacgtgg atcatgttga ccatactttaa t 411

<210> 12414
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 12414

aatatatcga gacgctagaa attgaataat ggaaactctc cagaaattca aatggtcata 60

acatttcact cggagggtccg attcatgccc ataatatatc gagacgctcg aaattgaaca 120
 acggaagctc tcgagaaatt caaactgtca taacttttca ctccgaggac cgaatcacgc 180
 gcataatata tcgagacgct cgaaattgaa caacggaagc tctcgagaaa ttcaaattgt 240
 cataactttt cacacggagg tccgattcag gcgccatata tatcgagaca ctcgaaantg 300
 aacaacggaa gctctcgaga gattcaaattg gtcataactt ttcactcgga ggteccgaatc 360
 aggcgcataa tatatcgaga cgctcgaaat tgaacaacgg aagctctcga gaaattc 417

<210> 12415
 <211> 462
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12415

attctatcaa tagacctcca atctttaatg gagaggggta ccacaactgg aaaaccgaa 60
 tgcaaatttt tattgaggca atagatctaa atatctggga agccatagaa atagggcctt 120
 atatacccac cacagtagaa agagtttcaa tagatggtag ttcacaaagt gaaagcataa 180
 ccatagaaaa atctagagat agatgggtctg aagaggatag aaaatgagta caacacaacc 240
 tanaagccaa aacataata acatctgccc taggaatgga tgagtatttc agagtttcaa 300
 attgtaagag tgctaaggaa atgtgggaca ctcttcgatt aacacatgaa ggaactacag 360
 atgttaaaag atctanngat aatgcactaa ctcatgagta tgaattattt tagaatgaat 420
 gcaaatgaaa tattcagagt atgcaaaaaga gatttacaca ta 462

<210> 12416
 <211> 361
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12416

attactgaca tgctagccaa gccaccctg aaccaaattg tgttgagca gcagccttga 60
 actcatcaag gaattntaca aatgaaccac agtctcttcc aatcagttct agaagctccc 120
 cggatggctt tccacctcca cactggttca tgcactccca gaagaagtca tggttccata 180
 cctgcactat gcattacaag attgattgat taattaagta ctaagccatg gtgttgaaac 240

atgaattaga gattctgggt gcaagcatgc atgcctgtgc tgcattgttg aaagctggaa 300
 gaagtcaccc ttattgtatg atgtgacaat aatctcttct agtgacatac catcaagctc 360
 t 361

<210> 12417
 <211> 330
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12417

atatgtaaag aggggtggtnt tggattcata cccatgacca atcggtcacc aagggtgcaac 60
 ttaccgctg cgccatgact tgccttgggg ggcttttaac catcttgata aaattagttc 120
 ttacttttta cttataaatt ttatcacag gaagaatgat tcatagctta aataaaaaatg 180
 agcatgctct cgatatggct gctcctgttc atgagagatt gggatgatg gatggtccta 240
 ctgacgacaa tctctcattg aagaagagaa ccaatgttct cctccatcgt gatcacactg 300
 gagacttggg atgtcttgat gggtgaatat 330

<210> 12418
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 12418

gcttgattct cattggagag gtaatgatc tctagatgat gcgctccatg agaggttggg 60
 tcaaatggag aatagagatc ataatgaaga agaaaggagg agaagaggga atgatggtgt 120
 tcttagacaa aaccgaattg atggtattaa actcaacatt cctccattta aaggaaagaa 180
 tgatccggag gcctacttgg agagggagat gaaaatagag catgttttct catgcaacaa 240
 ctatgaggag gaccaaagg tgaagcttgc cgccacggaa gtttccgact atgctcttgt 300
 gtggtggaac aagctacaaa aggagagagc aagaaatgaa gagccaatgg ttgatacatg 360
 gacggagatg aaaaaatcat g 381

<210> 12419
 <211> 226
 <212> DNA
 <213> Glycine max

```
<223>      unsure at all n locations
<400>      12419
```

<210>	12420
<211>	426
<212>	DNA
<213>	Glycine max

<210>	12421
<211>	506
<212>	DNA
<213>	Glycine max

ctaaaccacca aacatttcag ctcaactatc tcaattgatt catacaacat aatcataaca 300
 canatcatatc attatcatca acaacatact ttcataacca ataatacatca taaactatca 360
 aatatcatga gtcgcataca atcataaact atcacaaaac ctcatacatc tcaatcacca 420
 acaaccatca tcataactga agtacatcat agaccaagac aacatcaaac atcaaccact 480
 tattctanct catgngagtc aacaca 506

<210> 12422
 <211> 479
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12422

acgctcgaca ttaaaccatca gaagctctta tatattcaaa tgggcctatt ttttcatgcg 60
 gatgtccgat tatggcgaat cacatgtcga gacgctcaaa attgaacaac ggaagctctt 120
 gagaaattct aatggtcata aattttaact cggatgttcg attcaggcgc atcacatata 180
 gcggcgctcg aacaggaaca acggaagctc tcgagatatt caaatgggtca tgaactttca 240
 gactgaggtc cgattctgga ttataatata tcaagacgct cgaattataa catcggaagc 300
 tctcgagaaa ttcaattggt catcactctt cacacggatg tccgattcgg gcgcataata 360
 tgttgacacg ctcgatactg aacaacggaa gctctcgaga aattcanatg gtcataactt 420
 ttcacacgga tgtccaattc atgcgcacat catattgaga cgcatacgaat tgaacaacg 479

<210> 12423
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12423

tcccagagagc tttttttgnt cattntcgag cgtttctata tgtgatgcgc cttaatctaa 60
 catccgtgcg aagagttatg accatttgaa tttctcaaga gcttcggttg ttcaatattg 120
 agcgtctcga tatgtgattc gcttgaatcg tacattcgtg tgaaaagtta tgaccatttg 180
 aattttctca gagcttccgt tgggtcaattt cgagcctctc gatataattat gcgcccgaat 240
 cggacatccg tgtgaaaagt tatgaccatt tggatttcgc gagagtttac gatgtttaat 300

ttcgagcgta tcgatatatt attcgccgtga atcagacato cgtgtgatag ttatgaccat 360
 ttgaattttc aagagcttcc tgtgttcata ttcgaacttc tctacatatt at 412

<210> 12424
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12424

cttcaatato tttattctag atgactnnngn cactttttgt gtctctaate cctccattnc 60
 aaaacttctc atatttaagg tttttacaca gattaataaaa ctatttatat atacaaaactt 120
 aaactaaatt attctaattt ataaatcata aagataaaact aatagtccac aatacaaaat 180
 aattatccaa taattgtcca ataactcana ctcaataata ataatacata acataaaactc 240
 aagactactc aatgtccaat aattatccat aaactcacat tagcatcaaa gccaatgtcc 300
 acactaattg tccacaaaact catattcaag catcaaaactc aatgtccaca ctaatngtcc 360
 acaaagtga atttaagatt ataaatatat atggtagatt tacaatgggt aacgcataat 420
 tccaaaaacc ccatattc 438

<210> 12425
 <211> 328
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12425

atcttgggcc tttttccac aactctngta aatgggagag aaatgttcat ctaaagcata 60
 caaatctcta atgttatcaa atcctaaaat ntgagctcct agtgagcaaa acaatgtgtg 120
 tctcctagag agggcatcag ctaccacatt tgtttttccc ttnttgtatt tgataacata 180
 tggaaattgc tctangtact ctacnnccat ttgcatgcct ttgtttaact tgctttgcac 240
 tctaataga ttaagtgaat gatgatcact atgaatgaca nattccttgg aaacaaggta 300
 atgttcccaa gttcttagtg ctcttatt 328

<210> 12426
 <211> 405
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12426

tgtagtctt attcgctcagt tctttgacct tccaccacca tcttcataga ttagattat 60
tattatattn tgttttttaa gccttcgactt tggctatgtn tttatgacat tcgaacactt 120
agtatttctt ttaatatattg cttagtatga ttgaacatga tgataatatt tacttgctct 180
tgggtgttta tggctatggt tgttaaactt aattattntg atgatatata tgtctagtgg 240
tatgtactta catttggtat tgtgctntat gtatgtttta gaattatnta tgtatgaatt 300
attttacaca cttttggcct tttgatgttg ccaaaggggg agagaaaaat gggattttta 360
gaaatcaaga tattatattt tcaaagtctt aaattaagca taaat 405

<210> 12427

<211> 378

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12427

cgtaccaage ttcaattgga gtcttgctt ttacagactt agttggacat ctggttgagta 60
tgtaacaac agtgtagact gcttcagccc aaaatatgtt aggtagtccc ttttcttga 120
gcatcgatct agccatctcc ataactgtgc gattctttct ctccgacact ccattttgtt 180
gaggagaata tgcgactgta agttgtctct caatgccttc atcctcacia aatctttcaa 240
actcgcgaga ggtgtactct ctgctgcgat cacttcttag tgactttatc cgtcttcac 300
tttgattttc agcaagggcc ttgaactcta tgaatactcc aaagacttct gatgattctn 360
ttagaaaata taccatg 378

<210> 12428

<211> 322

<212> DNA

<213> Glycine max

<400> 12428

gcgtctcggt atattatacg actctattag acatccgagt aaaatgtgat tgcggttga 60
gttggtcag agcttcaaca ttcaatttcg agcatctcga tatgttacgg gactcaatca 120

gacatccgag taaaaagtta ttgtcttatg agttggctca gagcttcaac attcaatttc 180
gagcgtctcg atatatgacg ggactcaatc agacatccga gtaaaaagtt attgtcgttt 240
gaattggctg agagcttcaa catgtcaatt cgagcgtctc gatatgttac gggactcaat 300
cagacatccg agtaaaaaaga ta 322

<210> 12429
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12429

tgtctgcatg aatccttgtt tatatcgaga cgctcgatat tgaatgttga agctctgagc 60
aaattcaaac gacaataacg ttttactcgg atgtctgatt gagtcccgta atatatcgag 120
acgctcgaaa ttgattgttg aagctctgag aaaattcaaa cgactataac tttttactcg 180
gatgtctaat tgagtgcctg aatataacga gacactcgaa gatgaatggg gaatctctaa 240
gcaaattcaa acgacaataa ctttttactc ggatgtctaa atgagtcctg taatataacg 300
agacactcga agatgaatgt tgaagctctg agcagattca aacgacnact acattttact 360
cggatgtctg attgagtccc gtaatatatc gacacgctc 399

<210> 12430
<211> 296
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12430

cacagcaaga ctaacttttc tctctctgct tcgtggacgt tagataatgg gataccaatc 60
catttgctaa caatctctgt gatatcaagg tcagtgacct cttctccaaa taaagaatgt 120
ccggactttc tgaagtcggt taggtctctt tcagcttctt ctaattggcg ctgaaggac 180
atcaaagttc catacttaag ctcggcagca cggttcatgt cataatcacg ctcagcagct 240
ttcatctcta agttgactct atcaatctat acacgtgtnt ataacaatta agtcgc 296

<210> 12431
<211> 437
<212> DNA

<213> Glycine max
 <223> unsure at all n locations
 <400> 12431

ctggaactac ttcacattgt ctngatggng cctatgcaag ttgaaagcct tggaggaaag 60
 aggtatgcct atgttgttgt ggatgatttc tccagattta cctgggtcaa ctntatcaga 120
 gagaaatcag acacctttga agtattcaag gagttgagtc taagacttca aagagaaaaa 180
 gactgtgtca tcaagagaat cangagtgc catggcagag agtttgaaaa cagcaagttt 240
 actgaattct gcacatccga aggcatact catgagttct ctgcaaccat tacaccacaa 300
 caaaatggca tagttgaaa gaaaaacaag actttgcaag aagctgctan ggtcatgctt 360
 catgccaaag aacttccta taatctctgg gctgaagcca tgaacacagc atgctacatc 420
 cacaacagag tcacact 437

<210> 12432
 <211> 382
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12432

atgcaagctt aatatatcta tatatggttt anaacaagtt ttccgtcagt ggtaccttaa 60
 gtttcatggg ataatttctt cattnggttt tgatgaanat cccatggatc aatgcatata 120
 ccacaagggt agtggggagta aaatatgttt tcttgtttta tatgtagatg atattntact 180
 tgtagccaac gatcgggggt tgctacatga ggtgaaacaa tttctctcta agaattntga 240
 catgaaggat atgggtgatg catcttatgt catcgccatt aagattcata gagatagatc 300
 tcgagggtatt ttgggtctat cacagganac ctatattaac aaaattctag agagatttcg 360
 gatgaaagat tgttcaccaa gt 382

<210> 12433
 <211> 515
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12433

acatagacag tatcatctgc atattgcaga aagtnaattg gcaccttctg ctnncccttc 60

aaataactgc tgtacagacc ttnggataga gctgtectca tcatgccagt caagccttca 120
 gccacaatat tgaaaaggaa aggggctaag ggggccctt gctcaaacc tctagtggg 180
 gaaaattcat ttgaggggct gccatttatg agaattggata tagaagctga ttgattgcaa 240
 gcattgatcc atttctccca tataggacag aaccccatc tgaccatcat ataatccaga 300
 aagttccatg agacagagtc ataagccttt gcaaagtcca ctttaaacac cagagctgg 360
 ttcttacttc ttttagctta ctctattgct tcattgagaa tcaaagatcc atgaaggatg 420
 tgtctatcct ttatgaaagc tgtctgtctc tcatcaatga gtccaggcaa tatatttctt 480
 aacctattgg ccaggaatnt aacaatgac ttata 515

<210> 12434
 <211> 462
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12434

gttgtcatca tcaaatagtg gagaatgtga atgtatgtat acatgattnt gatgatgtca 60
 aagaagaate taacaaggct gcttcaaatg ataagcattt gcttcaagaa taattcaaga 120
 ttgcttcaac aaacaaagcc ttgtttcaag attcactaaa gaccaagcct tgccttanaa 180
 caaagtgtct tcaagacatg caaggctctg gtaatcgatt accaggaagt gtaatcgatt 240
 accagaagac agggttgaga aatagctgtt gaaaaatgtt ttgaatttga attttcaaca 300
 tgtaatcgat taccatatgt ctgtaatcga ttaccagcaa cgaaactttg gaaattcaaa 360
 ttcacaagtc alaacccttc acattataac tgtgtagatc gatacacaaa cattgtaatc 420
 gattaccagt ggaaagtttc agaagatctg caacagcaca tc 462

<210> 12435
 <211> 508
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12435

caagactgta tcatgtgtcc tactaattta taaattacaa cgcgacttgt atatcagagg 60
 catgactgga atcagtacat gatatttaat attaaataga gttaaataca caatctcggt 120

ctataattac ttaaategat taatcaccca agttaattca catgcatttt taataacact 180
 aaaaactagg tacatagaat accaatattt ttgttcattt gaatgtgtcc atcctgtgag 240
 atgactattg gaggaatct taagcaattt ctctgtcaag atattgatgt gtgattatta 300
 atttattggc aagtgtatta attcgtctaa atagtattnt aaaataataa gatcgagtat 360
 taagtccaca aaaactntga ctgtactcan agtttgtata cgtctaattt taaacaatta 420
 atgaattaaa ttcaatattg gtcgaataat aatacagaat ggtaaattca acatacataa 480
 agataattaa gtagagcata ttaaagag 508

<210> 12436
 <211> 488
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12436

ctacagcaga tgccactcta ttctaagttc ttgaaggata tgtaacaat gtaacataag 60
 tatattcacc aggaaaacat cgtagtggaa ggaaattgta gtgctgtgat tcaaaagatc 120
 cttccacca agcataaaga cctcgagagt gtaactattt cttgttcaat tggagaagtc 180
 attatgggaa aggetcttat tgacctngga gccaacatta atttaatgcc actctccatg 240
 tgcagaatgt tgggagagtt ggagatcatg cccactaaaa tgactttaca actggctgac 300
 cgctccatta ccagaccata tggagtaatt aaagatgtgc tgggtcaaagt gaaacatttt 360
 atcttccga cagactntgt ggtaatggat atctgtgaag atattgacat tctgttaata 420
 ttgggaaagc cattcatgtt aactgcaagt ngcatagntg atatgggtag aaagaagctg 480
 gaaatggg 488

<210> 12437
 <211> 299
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12437

gacattcgac taaatgtta tgaccatttg aatttctcaa gagcttccgt tgttcaattc 60
 tgagcgtctc gttatgtgat ttgcctgaat cggacatccg tgtgacaagt tatgaccatt 120

tgtattttctc aagagcttcc gatgttcaat ttcgagcctc tcgacatatt atgcgccccga 180
 atcggacatc cgtgtgaaaa gttatgacca tttgaatntc tcaagagctt ccgatgttca 240
 atttcaagcc tctcgatata ttatgcgccc gaatcggaca tccgtgtgaa acagtatga 299

<210> 12438
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12438

agcttataat atattgatac gctcganatt aaatgtctga nactctcggg aaattcanat 60
 agccataaat ttccacacgg atgtccgatt cgggcgtata atatgtcgag aggctcgaaa 120
 ttgaacaatg gaagctcttg agaaatttaa atgggcataa cttttcacac ggatgtccga 180
 ttcaggctta taatatatcg atacgctcga aattaaacat cggaaactct cgagagattc 240
 aaatggtcat aactcttcac acggatgtcc gattcggagcg cataatatgt cgagaggtcc 300
 gaaattgaac aacggaaact ctcgagaaaa tcanatggtc ataacttttc acacagatgt 360
 ccgattcagg cttataatat atcgatacgc tcgaaataaa catcggaaact ctcgagaatt 420
 caatgtcata ctttcacacg at 442

<210> 12439
 <211> 298
 <212> DNA
 <213> Glycine max

<400> 12439

gaagtagacc cggagatgga caagacaatc cgcagtattg tgagtagcat tctgaaagat 60
 gcttctgtgc ctgatgtgga gaaagatgtt ccaacatctt ccacccaag tggttccgtg 120
 cctgatgtcg agaaagatgt tccaacatcc tccgctccaa atgctgaagc cctcccttca 180
 cccagtgaag aggaatcaac agaagaagag gatcaagcct cagaggagac tctgcacca 240
 cgggcaccag aaactgtctc aggtgacctc attgacctgg aagaagtcca atctgatg 298

<210> 12440
 <211> 495
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12440

cytccaatcc tctaatagga tcattctccat aaatataatc acttttcatca ccattctccat 60
catcatcaat gccttctctca gattgtgcat catcatcagg ttccacgaaa attaaattat 120
ctagatcaag agcttaaaaat agatatcaaa gatgttatat cagaaatagt taaaacttaa 180
aataatacac aagcacattt taaatttgag aaagttcata aattatacct tctcttggtg 240
ttattaaaat tgcattntat cttctctttt gcattttcca tctcatatat gaaaagtatt 300
cagtaacaag attgatccaa ctccaacatt gtagggtcag ttggtgtggt ttgtaataga 360
ctaataataa gtatgaacta tgaactatga gtttatcgtc atttggttgg caaatggtgc 420
attntaaata tatntactta ttattcatat nnttttttac gaagtagact cttaagagtc 480
tacgagtcga ctctg 495

<310> 12441

<211> 429

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12441

aagagctaatt tatctgaaaa cttatatacc tttattttaa ctattcttata aatgagncaa 60
aataacttat aagctgacta attaaaaaga cttaattata agttattgaa gtaacttact 120
aaacacatgt gtctgaattag tttatattaa gaaatatgat attctgttga tcattctgaa 180
gatcatttta agaataattat ttataagatn gaattttcaa ataacgcttc tttatggcaa 240
taatgaagaa ggggtgttaga tgaattcgag tataatatat ctttcccaca aacgtgtgct 300
aagatacata gttcaaacca taatataatg aagaatcaga atgactaata tataaattat 360
agccaactac catcagataa cattttattt gattagacaa tcttactata ccctcgaagt 420
ggtattcat 429

<210> 12442

<211> 402

<212> DNA

<213> Glycine max

<400> 12442

tgcatgacca agtttcttat gccataatca atgattttct ttgatagaca acaaatgcga 60

taccttttga tctgatattt caccceaactt gatcttataa cagttacett tccttatagc 120

agaaaatagt agagactcat ccttggtctg gactacacac tcattctact taaaggaaac 180

atcatatcca ctgtcacata attggctaatt gcttagtaga ttgtgtttaa gaccttcaac 240

aaataatgca ttatcaatag agggataagg atgtgtacct atcttaccce ctcttattat 300

tttccctttt ttattccctt tgaaagtgc aattccacca tgatagcgag caggcattag 360

aacatacacc tttctcatgt catgtgccat gagcaaccac tc 402

<210> 12443

<211> 332

<212> DNA

<213> Glycine max

<400> 12443

ttttaggaca tgctggattt tataggcgat tcataaaata cttttcaaaa attgccaaac 60

cactcagtaa ttactgaac aaggatgttg tgtttgcat taatgaagac tgcttggaaag 120

cttttaatgt tctttagacc aggctagtat ctaccctgt gattatagca ccacattggg 180

gacaagagtt tgaattgatt tgtgatgcta gtgactatgt cgtatgtgct atacttaggc 240

agagaaaagg cagagttttc cgtgccatct attatgccag cgaagtcttg aatgatgcac 300

aatcaatta tgctaccatc tagaaagaaa tg 332

<210> 12444

<211> 398

<212> DNA

<213> Glycine max

<400> 12444

tgcccttgccc cttgatatat ttgagggact catggtcgct atgaatgaaa aattccttgg 60

gataaaggta gtgttgccat gttttcaaag cccgtactaa gtcatacaac tacttatcat 120

aagttgaata gttaagtgtg ggaccactta acttttctact aaaataagca attggatggc 180

ctgcttgcat caacacagcc ccaatcccaa catttgaagc atcacactca atttcaaaag 240

atttttgaaa atttggcaac gcaagtatgg aggcattagt tagcttttgc ttaagcatat 300

tgaaagcttc ttcttgttcc tctccccatt tgaaaccaac atttttcttg agcacttcac 360

tgagagggtgc tgccaatgtg ctaaaatcct tcacaaat 398

<210> 12445
<211> 354
<212> DNA
<213> Glycine max

<400> 12445

agcttcaacc aagatgggat ggtccatttc aagtacttga aaggataaat gacaatgcgc 60

acaagattga attgcccgat gagtataatg tgagtactac atttaattgtg tctgacttaa 120

cgctttttga tgtagatgga gaagtcgatt tgaggacaaa tccttttgaa gagggagaga 180

gtgatgagga caaggcaagg aataagggca aggaatcttt ataagaactt ggaggaccta 240

tggaaggggc tagaacaag aaggccaagg aagctcttca acaagtatta accatgctat 300

ttgaatttag acccatgtta caagtggaga agcttcggat tgttaattgc acca 354

<210> 12446
<211> 395
<212> DNA
<213> Glycine max

<400> 12446

tgccatgaat tgtttcatgt gtactattat agaggctggc ataatcctgt cataaaacac 60

aaccataaac taaaataagc atatgtgatc agtgtcaaaa taaaatgcaa ccatttacaa 120

aaccaatcaa gaaaataaga atagattatt acagctaacc aatcaacaag cctttcaggt 180

agccatgctt gagattgctt gtccacataa aatatttcaa ttaactccca cgcagctttc 240

aaagatgtag gctcttcacc tctctatatt atgtgtaatg tgttaaaaag caagtgatta 300

acttctcggt atcataattc ccacaaagca gatctcagct cagctaaaca cgggtaaaaca 360

atttagaacc taaaacagta ccttagcaat tacat 395

<210> 12447
<211> 371
<212> DNA
<213> Glycine max

<400> 12447

tcaacattca acttcgagcg tctcgttata ttatacgact caattagaca tccgagtaaa 60
aagttattgt cgtttgaatt tgctcagagc ttcaacattc aatttcgagc gtctcaatat 120
atgacgggac tcaatcagac atccgagtaa aaagatattg tcgtatgaat tggctcagag 180
ctttacatt caattttgag cgtctcgata tatgacggga ctcaatcagg catccgtgta 240
aaaagatatt gtcgtttgaa ttggctgaga gcttcaacat tcaatgtcga gcgtctcgat 300
atgttacggg actcaatcac acattcgagt taaaagttat tgctgtgaa ttggctcaga 360
ctttaacatt c 371

<210> 12448
<211> 397
<212> DNA
<213> Glycine max

<400> 12448
ttcaacatca ggggtggggc agcagggaca tgaaggatc cattctattc caattctctc 60
cttttgtctt ttattagta ttttttttaa attgaactaa cattctatgc tcttaagttt 120
ggcttctttt catacttgta tataaatgta aggtgtccct ttcatacccc cttttgtgtt 180
gcttgacat gcttgtagt tttttgttt ctttttctct ttttgataat ttgattggac 240
atgcttgtag gttttttgtt ttccttttct ctttttgata atttgattga tgtgtgagca 300
atgatggtta ggaggggaga agaagtgtct gaattctgag ctatggcatg catgcacggg 360
ccccttggtg tcctaccaa ctgcagggac tcatgtg 397

<210> 12449
<211> 259
<212> DNA
<213> Glycine max

<400> 12449
agcttttggg aggatcaata agtgccttat gaatcctccc gtgcttatgc caccagtacc 60
tggaaggcct ctcatattgt acatgacaat ctgggacgag tcaatggggg gtatgctggg 120
gcaacatgac gaatccggaa agaaagagcg cgttggttac tacctaagta agaagttcac 180
gacctgtgaa atgaattact ccttgctcga aagaacgtgt tgtgctttag tatgggcac 240
ccatgccta aggcagtac 259

<210> 12450
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 12450

tgaaggcaaa ctggatgcgt tggtaacctt ggtaacccag ctggccttga atcagaaatc 60
 tgtacctgtc gcaagggttt gtggcttggt ctctctgtct gaccaccata cagacctttg 120
 cccttccatg cagcaacctc gagcaattga gcagcctgaa gcttatgctg caaatattta 180
 caatagacct cctcaacctc agcagcaaaa tcaaccacag cagagcaatt atgacctttc 240
 cagcaacaga tacaacctgt gatggaggaa tcacctaac ctcataggtt ccaaccttca 300
 gcaacaacaa caacagcctg ctcttctctt ccaaaatgct gctggcccaa gcagaccata 360
 cattctctca ccaatccaac aacagcaaca acccc 395

<210> 12451
 <211> 371
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12451

agctttggag tnttttgtaa caattcgnet tcttctttgg tccagtcttc ttctggcttc 60
 aattcatcag tgggctttcc ttctgtgtcc agcatcttgg gatgttccca gcctttgatg 120
 acagctttcc aggttctgct atccagtgat ttgaggaagg ccaccatcct tgctttccag 180
 tattcatagt tggttccatc taggattggt ggtctgttca ctggctctcc ttctttctcc 240
 atgttcatca gaatttatct ccttagatct cactctgtga ttctgagtggt tggctctgat 300
 accaattgaa attctgatac caggggacag atgtcgtacc ggatgtcacg acatcatgct 360
 tcagaacatg c 371

<210> 12452
 <211> 278
 <212> DNA
 <213> Glycine max

<400> 12452

agctttctgt aaattgaatt ggtcataacc cttcacaccg atgtccgatt caggcgcata 60

atataatcgag aagctcgaaa ttgaacaacg gaagctctcg agaaattaaa attttcataa 120
 ctttccactc ggatgtccga ttcaagcaca tcacatatgg agacgctcga aattgaagca 180
 cggaagctct tgagaaattg aaattgtcat aacttttcac tcggatgtcc gattcaggca 240
 catcatatat tgagatgctc gaaattgaac aacggaag 278

<210> 12453
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 12453
 tcagttcact acttcaagta gtgcatgata tgcttccaga ggaaaacatg ttgccaaaac 60
 attactatca ggtgaagaag atactgtgtt cgatgggtat agagtatcag aagattcatg 120
 catgtcctaa tgattggata ctatacatac atgagtttga agaaaggcac aaatgcctta 180
 ggtgtgggct atcgaggtac aaagtgaagg atgacgacaa gtgtaacagt gacgaaaact 240
 caaagaaatg gccccccggc aaaagggtgtt gtggtatctt ccgatcatgc caagggttaa 300
 gcgtatgttt tctaatggag atgactcaaa agaccttaca tggcatgcag atgggagaaa 360
 cggatgatga atgctccacc atttggctga tt 392

<210> 12454
 <211> 402
 <212> DNA
 <213> Glycine max

<400> 12454
 tgccaaccca tggaaagctcc taatatctcc cacacttttt ggggcgggccc attcttggat 60
 ggcttgattt ttctcagggt ccacttggag cccattttcta ccaactacaa accctaagaa 120
 aactatatta tctacacaaa aagtacactt ctctatattt gcttagaggg tgtttttcc 180
 aaggactgaa agaacttgcc tgagatgtcc taagtgatca tctaggtccc tactgtacac 240
 taaaatatca tcaaaataaa caactacaaa tctacctatg aaatccctta agacatgatg 300
 cataagcctc ataaagggtc ttggtgcatt agtgagccca aaaggcatca ctaggcattc 360
 atacaaacca aacttggctc tgaagcggt tttccactca tc 402

<210> 12455
 <211> 394
 <212> DNA
 <213> Glycine max

<400> 12455

tcaagaataa tggccttagc aaacttctta ttcccaaag gaaattcaat aaataggcct 60
 cctattttta atggagaggg ttaccactac tggaaaaccc gaatgcaaat ttccattaag 120
 gcaatagact taaacatttg ggaatccata taagtttagc cttatgtacc caccatgggtg 180
 gctagaaatg caacaataga gaaacctata gaatagtcga ctgaagatga aagaagatta 240
 gtgcagtaca atttaaaggc taaaaacatc attacttctg ccctatgaat ggatgaatat 300
 tttatgggtt caaattgtat gagtgctaag gatatgtggg acactctaca aattacacat 360
 gagggaaaca ctgatgttaa acgatctatg ataa 394

<210> 12456
 <211> 394
 <212> DNA
 <213> Glycine max

<400> 12456

tcttgggggtt ggctggctat tataggaaat tcattgaggg attttccaaa ttggcattgc 60
 ccctaactaa gttgactcgt aagaacgaga agtttgtctg gaatgagaag tgtgatcaaa 120
 gtttccaaga gttgaagagg cggttgacga cagctccgat gttaatttta cccgacccta 180
 agagaccatt tgaagtgtat tgcgatgcaa gtgggcaagg cctgtgggtgt gtgttgatgc 240
 aagaggggaag agtgggtggct tatgcttcat gtcaattacg tcctcatgaa gttaactacc 300
 cgacccatga cttggaacta gcagcgggtg tctttgcctt aaagattagg aggcattatt 360
 tgtacgggtac tcgttttgaa gttttcagtg atca 394

<210> 12457
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 12457

taaacattca atttcgagcg ttctgttata ttactagact caatcagaca tccgagtaaa 60
 aagttattgt cgtatgaatt ggcttaaagc ttaaaccattc aactttgacc gtctcgatat 120

aatacgggac tcaatcagac atccgagtaa aaagttattg tcgtttgagt tggctcagag 180
gttcaacatt caatttcgag cgtgccgata tattacgtca ctgaatcaga catccgagta 240
aaacgttatt gttgtttgaa ttggcctata gcttcaacat tcaatttcga gcgtgtcgat 300
atattacgag actcaatcgg acatccgagt aaaaagttat tgtcgttaga attgggtcaa 360
agggttaaaca tacaatttcg agcgtttcgt tatat 395

<210> 12458
<211> 363
<212> DNA
<213> Glycine max

<400> 12458
agctttgagc caattctatc tactataact ttttactcgg atgtccgatt gagtctagta 60
atatatcgac acgctcgaaa ttgaatgttg aagctctaag cctattcaaa caacaataac 120
gttttactcg gatgtccgat tcagtgacgt aatatatcgg gatgctcgaa attgaatgtt 180
gaacctctga gccaaactcaa acgacaataa tgttttactc ggatgtctga ttgagtcccg 240
aaatatattg agacgctcga aattgaatgt tgaagctctg agccattcaa acgacaataa 300
ctttttactt cgatgtgtga ttgagtcccg aatataatta gacgctagaa attgaatgtt 360
gaa 363

<210> 12459
<211> 369
<212> DNA
<213> Glycine max

<400> 12459
tgtcatactt gttccagaaa ggagaatata tggttttggt aatgtttgcg ccattgtcaaa 60
gtgccacaag gatactcttc aaatgttaag agccttgtgc agttcgaatt tctaaaatgg 120
cgatacaaga cattttacct aacaaagtca agcatgccat aactcgcttg tgctttttct 180
tcaatgccat atgtagcaaa gtcattgac cctctaaatc gtatgagctg gaaaacaaga 240
ctgctattat cttgtgtcag atggagatgt attttcctct ttcatttttt tgcacatcg 300
gtcacttaa ttgttcattc tatgagggaa ataaatgtta tgggtccggt tatttgtggt 360
ggatgtacc 369

<210> 12460
 <211> 367
 <212> DNA
 <213> Glycine max

<400> 12460

agcttagaac tctcactta caagttgctt taaggatttt gagacatttg aagggatctc 60
 caggcttagg cctattctat tatgttgata atgacttgaa gatccaagtc tttcttgatt 120
 cagattgggc gatatgtcca gttagcagaa aatcaatcac tggttattgt atttttcttg 180
 gaaaatcctt gatctcttgg aaagctaaga aacaaaccac aatttctagg agttctactg 240
 aagttgtgta tagagttctt gcttctcttg cttgtgaatt atagtggctg aagtaccttt 300
 gtgatgatct tcatcttctt attcttggtc ctttttgtac tttttctgat agtgagctg 360
 caattta 367

<210> 12461
 <211> 388
 <212> DNA
 <213> Glycine max

<400> 12461

tggaggaaga aggagatgaa tgaagggaga tgaagagaag agcacgaaat tttgtgctta 60
 aaaaagctcg gaaatctgaa gtttaatttt caaatgatca aagttgaaaa aatgcacaca 120
 catagtctct atttatagcc taagtgtcac acaaaattgg agggaaattt gaatttctat 180
 tcaaaattca cttgaatttg aaattgaatt tgtggagcca aattttggag acaaaatttc 240
 actaattatg attagtgaat tttagatatg gttcagccca ctaatccaag atcaagtcca 300
 agattctcca ctaagtgtgc ttatgtgtcg tgaggcatgt aaaacatgaa ggaatgcac 360
 aaagtgtgac tatatgatgt ggcaatgg 388

<210> 12462
 <211> 371
 <212> DNA
 <213> Glycine max

<400> 12462

ttgaggattt tcaaacgaca ataacttttt actcggatgt ctgattgagt ccctaatat 60

atcgagacgc tctaaattga atgttgaagc tctcagcaaa ttcaaacgac aataactttt 120
tacttgaatg tctgattgag tcccgtaata tatcgagacg ctcgaaattg aatgttgaag 180
ctctcagcaa attcaaacga caataacttt ttactcaga tgtctgattg agtcccgaaa 240
tatatcgaga cgatcgaaa tgaattctga agttctgagc taattcaaac gacaataact 300
tttactcga atgtctaatt gaggacctta atatatcgag acgctctaaa ttgaatgttg 360
aagctctcag c 371

<210> 12463
<211> 275
<212> DNA
<213> Glycine max

<400> 12463
agcttcaact ttcaatttct agcgtctcga tatattacag gactcaatca gacatccgag 60
taaaaagtta tcgtcgtttg aatttggta gagcttcaac attcaattta cagcgtctcg 120
atatattacg ggactcaatc agacatccga gtaaaaattt attctcgttt caatttgctc 180
tgagggtcag aattgaattt cgagcgtcta gatatattac gggactcaat caaacgtctt 240
agtaaaaagt tattatcggt tgaattagct cagaa 275

<210> 12464
<211> 313
<212> DNA
<213> Glycine max

<400> 12464
agcttatgct gcaaacattt aatatagacc tcttcaacct cagcagcaaa atcaaccaca 60
gcagaacaat tatgacctct ccagcaacag atacaacct agatggagga atcacctaa 120
tctcagatgg tttagccctc aacaacaaca acaacagcct actccttctt tccaaaatgc 180
tgctggccca agcagaccat acattctctc accaatccaa caatagcagc agccccagaa 240
acagcaaaca gttgaggctc ctccgcaacc ttccctcgaa gaacttggtg ggcaaatgac 300
tatacagaac atg 313

<210> 12465
<211> 387

<212> DNA
<213> Glycine max

<400> 12465

tgatcaaat tcaaacgaca ataagttttt tctcgatgt ccaatagagt cccgtaatat 60
atcgagacgc tccaaattga aattggaagc tcgtatcaaa ttcaaacgac attaaacttt 120
gacttgatg tccgattgac tcccgtata tatcgtgacg ctccaaattg aaaacagaag 180
ctctaagaca attcaaacga caataacttt ttattcggat gttcgattga gtcccgtaat 240
atatcgagat gtcctatatt gaaaacggaa gtcgtatca aaagcaaacc acaataactt 300
tttactcgga tgtccgattg agtcccataa tatatcgaga cgctcgaaat tgaaaacgga 360
tgctcgtagc aaattgaaac cgcaata 387

<210> 12466
<211> 382
<212> DNA
<213> Glycine max

<400> 12466

tcttatccaa ggcacattct tgggtggtgaa gctccttctt ccttagctta ttccctagt 60
gatggcgctt gctctctctt cttctccttt gtctctgtt gcatctccat ggtggaaaat 120
catcattgaa agacctcatt gaagctcaaa gatccagcct ccatagaagc tccagaagca 180
agcttcatt aggaatgatg gttctctctt caatcaatca gcctaaaaat attgatgaag 240
aattgagtga agattctaag gtgattgcta tggaagagga actaagtcag ttcattaata 300
acaaggttgg aatctagtct ctcctctca gaatcagaca gtgattggaa ccaagtggat 360
gttcaaaaac aagcttaatg aa 382

<210> 12467
<211> 372
<212> DNA
<213> Glycine max

<400> 12467

tataagagca tgtagaagca aatgactttt atgttttgat gatgatcatg atgatttgat 60
gcaaatgatg caaatgcgct tttcaagttt aaattcaaga caatgattca agaatacaag 120
acacaacatc aagatgatca ctattatttt aggaagggaa ttcctaattg atatagcaaa 180

aggtttgccc aagtaattta agttaaaaat gtttttcaag agatttactc tctggtaatc 240
gattaccaga ggatgtaatc gattaccagt ggccaaaaat ggtttacaat agctattaaa 300
aatttaaatt caaatttttag attgtgtgat cgattacata atattgggta tcgattacca 360
gcagttaata aa 372

<210> 12468
<211> 178
<212> DNA
<213> Glycine max

<400> 12468
agcttctata gaaggttctt tcctaatttc tctaaaattg cctcaccttt caatgagctg 60
gtgaagaaga atgtggcatt tacctagggtt gaaagacaag agcaagcctt tgctttgctc 120
aaagaaaatc ttactaaggg acctgttcta actcttctta gattttctaa aacttttg 178

<210> 12469
<211> 364
<212> DNA
<213> Glycine max

<400> 12469
tttacgtaaa aaccaaactg atcgctggaa tgaggattgc caagaggctt ttggaaggat 60
caagaagtgt cttatgaate cccctgtgct tatgccacca gtacctggaa ggcctctcat 120
cttgtacatg acaatcttag acgagtcaat ggggtgtatg ctggggcaac atgacgaatc 180
cggaaagaaa gagcgcgctg ttactacct aagtaagaag ttcacgacct gtgaaatgaa 240
ttactccttg ctgaaagaa cgtgttgtgc tttagtatgg gcacccatc gcctaaggca 300
gtacatgctg agccatacta cctggttgat atccaagatg gacccgggta agtacatctt 360
tgaa 364

<210> 12470
<211> 389
<212> DNA
<213> Glycine max

<400> 12470
tgctaaccga tggaagctcc taatatctct cacacttttt ggggtgggcc attcttggat 60

ggccttgatt ttctcagggc ccacttggac cccatttcta ccaactacaa aacctaagaa 120
aactatatta tctacacaaa aggtacactt ctctatattt gcatagaggg tgtttttcct 180
aaggactgaa agaacttgtc tgagatgtcc taagtgaata tctaggctcc tactatacac 240
taaaatatca tcaaaataaa caactacaaa tctacctatg aaatccctta agacatgatg 300
cataagcctc ataaaggtgc ttgggtgcatt agtgagccca aaaggcatca ctagccattc 360
atacaaacca aacttgggtc tgaaagcag 389

<210> 12471
<211> 194
<212> DNA
<213> Glycine max

<400> 12471
agcttgaat cgattacact catactgtaa tcgattacca gaggagtgtt tcagaaaaa 60
ttctcaacag tcacatcttt ttatctgatt cttaagtggc catcaaaggc ttatatatat 120
gtgactagag acacgaattg aacaagagtt ttgaagaaca aaaagggtctt atcctcttaa 180
caagcaaaat gttt 194

<210> 12472
<211> 230
<212> DNA
<213> Glycine max

<400> 12472
agcttgaat tgattacaca catactgtaa tcgattacca gagaagattt tcagaaaaa 60
ttctcaacag tcacatcttt tcattttgtt cttaaatggc catcaaaggc ttatatatat 120
gtgacatgag acacgaattt gctaagtttt tttcagaaca aaaagggtctt atcctcttaa 180
caagcaaaat tgttttatcc tcttacaaat tcttggcca aaacactgtg 230

<210> 12473
<211> 265
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12473

agcttcttca taaatgtgtc atttgtgctc aatacacaat gctcgggtaca ccacaacaaa 60
 atggtgtatc agaaaggcgt aatagaactt taatggacat ggtaggagt atgttaatca 120
 atttgactat acccgatatc ttgtggatgt atgctttgaa aactgccatt tatttgttga 180
 ataggattcc tagtaaggca gttccaaaga cacttttgaa tgtgtgacaa taggacactc 240
 atataaggca ctctctgttt ggggt 265

<210> 12474
 <211> 266
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12474

agcttccatc aactgggtatc agatcttcaa tgaagaacct caagatttga ggtcaaatcc 60
 tttccaagggt ggaggggaatg atgcaatcct accccacaag gtcattggat agaagactcc 120
 aagtagattg ggtcagagat ccaaggggaag gccctagggt tctcatgagc cttagggtag 180
 attttgagac ccatagctaa gtatgaagcc ttctttgttt ngaaaaatc anantgttt 240
 ttcttttttt tggggctcgt gttttg 266

<210> 12475
 <211> 399
 <212> DNA
 <213> Glycine max

<400> 12475

tgaaggtaaa atagatgcct tggttaacct ggtaacccaa ctggccatga atcaaaaatt 60
 tgcacctgtc gccagactct atggtttatg ctctctgtc gaccaccgca cagacctttg 120
 cccttctgtg caacaatctg aagcaattga acagcctgaa gcttatgtctg caaacatcta 180
 caacagacct cctcaacctt agcagcaaaa tcagccacaa cagaacaatt atgacctctt 240
 caccaacagg tacaatcccg ggtggaggaa tcacccaac catagatggt cgaatccttt 300
 acaacagcag caacaacaac cttattttca aaatgttgct ggcccaagca gaccatacgt 360
 tcctccacca atccagcagc aacatcagca acagcacca 399

<210> 12476
 <211> 371

<212> DNA
<213> Glycine max

<400> 12476

agcttgtcaa cagagttcat caagttaata tctctattcc tttaggatgc ttgttgttcc 60
actaaaattc tgattatgcg tatgaaaaaa aaatttattg gaagaatcaa aacttatttt 120
ggttatttct attcccctag atctagtctt atgatttttt attatggaca tagtttcttt 180
tcgaaaaaaa taatatattt aatttttatg tattattaat ttagtcacct taaaaagtta 240
atatgattta atcaattaaa tactataaat ctataatagc tttgattttt aagaaaataa 300
tcatgcaaat taacaaattt attttatatg ataatttgta attaaatatt aataatataa 360
aatccattg a 371

<210> 12477
<211> 194
<212> DNA
<213> Glycine max

<400> 12477

agctttttag aaactcaaat ggctcattact ttctactcgg aggtccgatt caggcgcatc 60
acatgtcagc agcgtcgaaa ttgaaaaatg gaagctcttg agcaattcaa atgggtcataa 120
attttcactc gtacgtccaa tacaggcgca taatatatcg agaggctcga aattgaacaa 180
cggaagctct cgag 194

<210> 12478
<211> 387
<212> DNA
<213> Glycine max

<400> 12478

tgccgccacg gagttttccg actattctct tgtgtggtgg aagtgattat gcaagttgaa 60
gtggacgttt ccattgggaa atacaatgat aaggtaacttt gtgatgttgt tctatggag 120
gccagtcact tacttttggg gagaccatgg caatttgata aaagagccaa tcatgacggt 180
tacaccaaca agatctcttt cattactttt ggtgttgcat aaaaaatgta caatgtaagt 240
cggctaggtt tttttgtgcg agctcaaccg acattttgtt tcggccgaaa ctggcatggt 300
cccatttatt ttggccagga taacattatc ccacctcggc agaaaaatat ttgctattcc 360

acttcatgca tattttatcc acggaat

387

<210> 12479
<211> 203
<212> DNA
<213> Glycine max

<400> 12479

agcttgaaat tgatctatgt atgctctcga caaattcgat tggtcataac ttttcacacg 60
gatgtctaat tttgggacct aatatatcga gatgctcgaa attgaacaac ggaacctatc 120
gagaaattca aatgttcaaa acgtttcaca cggatttcg attttgggac ataatatacc 180
gagatgctcg aaattgaaca acg 203

<210> 12480
<211> 366
<212> DNA
<213> Glycine max

<400> 12480

agcttgtaat cgattacact agtcttgtaa ttgattacct aaggagattt tcagaaaatt 60
atttccaaga gtcacatctg ttcaaatggg ttttacctgg ccatcaaagg tctattttata 120
tgtgactagg aacacaaaatt tgctgagagt ttttttaaag aacaaaaagg tattattctc 180
tcaaaaagaa aaatcttctt atcctcttaa aaattccatg gccaatcac ttgcaattca 240
ataaggaatt ttttgagtgc tcaattgttc aatctatctc tttcaagaga gatttcttct 300
tctcttcacg ttacttctaa aaagggatta agagaccgag ggtctcttat tgtaaagaaa 360
tctgaa 366

<210> 12481
<211> 309
<212> DNA
<213> Glycine max

<400> 12481

agctagcagg gttaaagtct cagattgtc acgtgctcat gcaacaattg ttagttgtgg 60
ctatacgaga catcttgcca aacaaagtca ggtagccat aactcgcttg tgctttttct 120
tccatgctat atgtagcaaa gtcattgac ctatgaagtt tgatgagctg gaaaatgagg 180

ccgcaattat actgtgccag ttagagatgt attttcccc tactttcttt gacatcatga 240
 ttcacttgat tgtgcatctg gtcagagaaa tcaaatgttg tggctctgtt tatctacggg 300
 ggatgtacc 309

<210> 12482
 <211> 449
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12482

cttgatgggtg ttgagaagaa atcacnngtt tgtcatcatc aataaggggg agaattgtgaa 60
 tgtncgtata catgattntg atgatgtcaa agaaggatct aacaaggctg cttcaaatga 120
 tnagcatttg cttcaagaat gattcaaggt tgcttcaaca aacaaagcct tgtttnaaga 180
 ttcactaaag accaagcctt gccttanaac aaagtgttt cgagacaagc aaggctctgg 240
 taatcgatta ccaggaagtg taaacgatta ccagaagaca gggttgagaa atagctattg 300
 aaaaatgttt tngaattgaa ttttcaacac gtaatcgatt accatatgtc tgtaatcgat 360
 taccagcaac ggaacttttg aaattcaaat tcaaaagtca taacccttca aanataattg 420
 tgaatcgata cacaacatt gaatcgata 449

<210> 12483
 <211> 418
 <212> DNA
 <213> Glycine max
 <400> 12483

agcttccaag aatcaagatc aagactcaag attcaagaat caagagaaga attaatacaag 60
 ataagtatga aaaagttttt tcaaaaactg agtagcacat ggatttttct caaacatgt 120
 ttaccaaaga gtttttactc tctggtaagc gattaccaga ttgttgtaat cgattaccag 180
 tagcaaaatg tttttgaaaa agttttcaac tgaatttaca acgttccaat tgatttcaaa 240
 aagctataat cgattacaat gttttggtaa tcgattacca atgtgcttga acgttgaaat 300
 tcaaatcaa atgtgaagag tcacattctt tcacaagaaa agctttgtgt aatcgattac 360
 actgatttgg taatcgatta ccagtgatag tttctgaaca aatcataaga tgctactc 418

<210> 12484
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 12484

gctttgatga acattcggag aggttaatgt aacaacgaga tgatgcgctc catgagaggt 60
 tggatcaaat ggagaatata gaccatatga attgctcaag agcttccatt gttcaatttc 120
 gagcgtctag atatataatg cgccttaatc cgacctacga gttaaaagtt atgaccattt 180
 gaaatgctca agagcttcca ttgttcaatt tccagcgtca cgatatatta tgcacctgaa 240
 tcggacctgc gagtgacaac ttatgacct ttgaattgct caagagctta cattgttcaa 300
 ttttgagcgt cagcatatat tatgcacctg aatctgacct gcgagcgaca acttatgacc 360
 atttgaattg ctcaagagct tccattg 387

<210> 12485
 <211> 454
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12485

agctngcaaa ccaaagtctc accatttcta tatgagaagc cttcagggtt tttcatataa 60
 acctcttctc ctaaataacc attaagaaag gttgttttca catccatttg ttgcaactca 120
 aggtcaaaat gagcaactaa tgctaagata atacaaagag aatctttctt aaatatagga 180
 gaaaaagtct ctgtgtagtc gattcctttt ttttttagta aatcccttag caacgagtct 240
 ttecttgtat ctctcaatgt tgctaatga atccctttta gtcttaaatg taacatccca 300
 tttttcgtga attaaattaa aaagggttta gagttctaga aaaaaaaatg atgaggcttt 360
 tgttattaaa taaataagaa gaaataacat tattaatata atgggttcgaa ggaaaaataa 420
 aatgatattt gattattcat ttgatagaaa ataa 454

<210> 12486
 <211> 339
 <212> DNA
 <213> Glycine max

<400> 12486

gcttcaacat tcaatttcga gcgtctcgat atatgacagg actcaatctg acatccgagt 60
 aaaaagttat tgccgtttga attggtcag agcttcaaca ttcaatttcg agcgtctcga 120
 tatatgacag gactcaatca gacatccgag taaaaagtta ttggtcgttg aatttgctca 180
 gagcttcaac attcaatttc gagegtgtcg atatattacg ggcttcaatc agacatccga 240
 gtaaaaagtt attgtcgttt gaattggctc agagcttcca cattcaattt cgagcgtctc 300
 gatataattac gggactcaat cagacatccg agtaaaaag 339

<210> 12487
 <211> 414
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12487

agctcgctct aaatntacat tgatgtttgt atttatgtga ggaggttgta cgccattttt 60
 gttttaagag tagtgtccca ctggtaaaac taactttcca aatttttggc ttgcgaggaa 120
 atggccccga ggaagcttgc ctcaaagagg tccaggaagg acaaggcagc cgaaggaaact 180
 agttccgctc cggagtatga cagtcaccgc tttaggagcg ctgtacacca gcagcgttcc 240
 gaggccatca agggatggtc gtttctccgg gagcgacgcg tccagctcag ggacgacgag 300
 tatactgatt tccaggagga aatagctcta cggagtttta aaagattggc taagattntg 360
 ttaaaacata agcacttaga caatgaagga aagctggagt tgctgcacat gatg 414

<210> 12488
 <211> 439
 <212> DNA
 <213> Glycine max
 <400> 12488

cgcaagcttc aacattcaat ttgagcgtct cgttttatta cgggactcaa tcagacatcc 60
 gagtaaaaaa ttattgtcgt ttggattggc tcagagattc aacattcaat ttgcgagctc 120
 tcaatatatt acgggactca ttcagacttc cgagtaaaaa gttattgtcg tttgaattag 180
 cttagagctt caacaatcaa tttcgagcgt ctcgttatat caccggactc aatcagacat 240
 ccgagtaaaa agttattgtc gtttgaattg gctcagagct tcaacattca atttcgagcg 300

tctcgatata tgacaggact caatcagaca tccgagaaaa aagttattgt cgtttgaatt 360
 tgctcagagg ttcaacattc aatttcgagc gtctcgatat attacaggac tcaatcagac 420
 atccgagtaa aaagatatt 439

<210> 12489
 <211> 452
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12489

tacgtgaact ataaaaactaa gcttaagcta gaggagacgg accattccaa gtgttgagaga 60
 agattnacga caatgcctac aagattgact tgcctaggta gtataatgta agtgccactt 120
 tcaangtgct tgacctctct cttcccgatg nagatggagg agccttggaat ttgaggaaaa 180
 atccttttca agaaggaggg agtgagttagg acacaactaa ggacaaggac catgaagcac 240
 ttgaagcgcc catgaccaga ggcagactta aacaggccca acacatatta gagacaaggc 300
 tggccatttg tatagctgcc attgatgatg gttaaaggcc caagtggaga aagatgaagg 360
 cccagaggca gagccactac caagactatt aattgttgct gaaggcccan actaatttat 420
 aagcccaagt taaatatatt ttagttata at 452

<210> 12490
 <211> 452
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12490

agcttatgct gcanatattt acaatagacc ttctcaacct cagcagcaaa atcaaccaca 60
 gcagagcaat tatgaccttt ccagcaacag atacaaccct ggatggagga atcacccata 120
 cctcagatgg cccagccctc agcaacaaca acagcagcct gctccttctt tccaaaatgc 180
 tgctggccca agcagaccat acattctctc accaatccaa caacagcaac aaccccagaa 240
 acagccaaca gttgaggccc ctccataacc tttctcgaa gaacttgatg ggcaaatgac 300
 tatgcagaac atgcagtttc agcaagagac caaagcctcc atttagagct taaccaatca 360
 gatgggacaa ttagctacct aattgaatca acaacagtc cagaattctg acaagctgcc 420

ttctcaagct ggtctaaaat ccaaaaatgt ca

452

<210> 12491
<211> 200
<212> DNA
<213> Glycine max

<400> 12491

agcttacaca caagaccata ctccctctgc gtctcaaacc caggagggtg ctccatataa 60
atatccctct caagatcacc atggaggaag acatttttaa tatcaagctg atggaggggc 120
cagtgatgta tggcagccat agcaagaaac agacgaacaa tagtgatttt ggctacagga 180
gaaaaagtat cacaataatc 200

<210> 12492
<211> 411
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12492

agcttcacat tctagacaag gtcaagttca ttgcgtctgc tacaaagtct acaaccaaca 60
gaataatgaa caagttctaa gtaacagaaa caagtgcatt atgtatagtg ttaaacaat 120
agagacattg acaccgagtc taacctgcat cttcttttgt gaaacacaag ggagggtgaa 180
ttctgaagac atttccatag taaccaccct taccaataag tactcctagt tctatagtaa 240
tttagaatga ccggttagta ataatataga agaaaactat agctaggatc aaaatatgtg 300
tctagactag agggatatgg attttacctt tcatnnggtc cattacatgc aatgtttcat 360
tttttgcgtg agttttaagt tcacgatcag tgacaagttc aactcctagc a 411

<210> 12493
<211> 387
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12493

ttatccatga cttcctatgg tggtcagctt gtgcttgact cttcttctcc ttgaagtgc 60
anctccaatc atctttcttc cttctccatt ccgntaccat tgacctccac cacacacccg 120

cctccatcga tgaccaagat ccaagggtta caagctccac atggagctac atcaaatctt 180
ctaagtgtct gacttgctct tgtgcaagac tcttcatgtt attttgggtt tctctttcta 240
tcatttgctt tttggcatca tcaaaatcta caacattaca tataaccaca atcactagca 300
ccgttaccac cacctccatc atcattgcca ccaccatcgt aaccaacatc accactacta 360
ctgacattgg taccaccacc ataacca 387

<210> 12494
<211> 370
<212> DNA
<213> Glycine max

<400> 12494
caatgtggaa aacaaagtaa gatcgcgaga tcagatagag gtggggagta ctatggtaga 60
tacacagagg atggacacac accaggttca tttgcgagat ttcttcatga acatgggatt 120
gttgcccaat acactatgcc tggttctccg gatcagaatg gtgtggcaga acgaagaaat 180
cgaaccttat tagacatggt gagaagcatg aggagtaatg taaagcttcc tcacattttg 240
tggattgatg ctcttaagac ggctgcgtat atattaaacc gagttccaac caaggctgtc 300
tcaaagacac cttttgaatt attcaaggga tggaaaccaa gtttgcgaca tatacgcggt 360
tggggatgcc 370

<210> 12495
<211> 471
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12495

gaccgggat acttagagtc acctgccgca tgcaagcttg ttcttaactc atcttctect 60
tgaagtggca tctccaacca tctttcttcc ttctccattc cactgtcatt gatcttcaag 120
aagcaaaaga ctccattgat gaagaagatc caaggcctac aagctccata tggagctatg 180
tcaattacta aataaaactt attaaaaaca tattcggttc agaacaaggc cgtcaaagtt 240
tacaaaagaa attttggtta atcaatgaga tgaaataaaa taaaataaca acatgcaatt 300
aaaagaaaaa ttcctcctca atgttgcatc ctatcagagc attgtgtcct aacatcctct 360
agcacgaggt tctttaagat catctaccta gtcctctgct cccatgaaca caagattcga 420

gatcatcaca agatccanac acaaataaca cacagggagt gaattatcac a

471

<210> 12496
<211> 453
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12496

agcttcgcg gatgaatttg tctagagtaa attcttcatt ntatttatca tgcgtgggg 60
atcgagggaa aaacgctcag aaactaatgg cccactacca ctaggaaatg aagtacatgc 120
tttatcagca ttaatatatt gttggtgttc attacaaaaa actaaataat aaaagggaaa 180
ttaattntaa tcatatctca accaaaagag aatcaaatag gaatttagga gataatataa 240
taaagggtgtt ttagggtcaa tgctttagat ttctataaaa taatttttta tatattctta 300
aataaaagat atttctgaaa tattaaataa atctgaatcc aatataatat ttatttaaaa 360
aatgttctat gttgattatt ttatttactt ttaagatttc taactcgtca caactcataa 420
atcctaataa taaaattaag actgaaatat aat 453

<210> 12497
<211> 458
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12497

ttaagtcacc tganctgca gctaagctcc ttcaactgca caaagctctt aatatttgaa 60
gagtatcctt gtggaacctt tactcgacga agacactgac aaaaacttat cttctccttc 120
ttggacaaag tatggcaggt tgggggcaag taaattttct tccatcaga cttgggatgc 180
aactgtgac gtatacccat atcagctaga tcttgacggg tattcaagcc atccttcgtc 240
ttgccttgaa tgtaaggag cgtcctaata acactgtcac aaacattttt ctccacatgc 300
ataacatcaa tacaatgtct aatgtcaaga tcacaccagt atggaagatc aaagaanatg 360
gacctcttct tccatatgca actctgactt ttatccttct ttgggtctt cctaaataca 420
gtattcaggt gctgaacctg ctgatatacc tactcact 458

<210> 12498
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12498

tggaagaact aaacttgaga aattgcaatc ctatgagggtt gttgatggat aacaaatcan 60
 caattgattt agctaagcat cctgtggcac ntggcaggag taaacatatt gaaaccacat 120
 ttcatcttct acgtgatcaa gtgcataagg agaaacttga attggatttt ttgagggtctg 180
 aagatcaagt tgcagacata atgatgcaat cctacccccc aaggcattgg atagaaaaac 240
 tccaagtaga ttgggccaga gatgcaagag aaggccctag gcttcttatg agccttaggg 300
 tagatttcgg gcccataggg taagtacgaa cccgcttata tttgtaaata ttagattaag 360
 gtttcattat ttttgggcct tgtatttagg gctccataat gtangtagcg gaccctagaa 420
 atatangatt tttcagccct tgtatttt 448

<210> 12499
 <211> 447
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12499

agctttgtag tcctctntga tcaaagggtc atatattata attctcaggg cataataggg 60
 atgatagaaa tagatctaaa ccaaatagtc tccctaattt atattgcccc taattacaca 120
 atgaatctta atgatttcat acaaaacata aacctagaag tccaggcaat aggggtttgga 180
 agaaactttg agggacataa cttacacttg gatattacct tcattggcag aataagtgat 240
 caaatatccc ctagatacat gataaacact aatccattag tgacaacctt atcatctgat 300
 ggaatccaat ttttgccacc cgaaatcttt gattcctcta gaaacaaaa caatcaatgg 360
 caaaaacata tagatgctgg atcctctagg atggcaataa ccattcgtgg atcagctata 420
 ataacaaca gaagagatag tctttta 447

<210> 12500
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 12500

agctntgtag cagatgccac tctactctaa attttngaaa gatatgttaa caaggaagca 60
taaatatatt gatcaggaaa acatcatagt ggaaggaaat tgcagtgtcg tgatccaaaa 120
gatecttcca cccaagcata aagatcctgg aagtgttaact attccttggt caattggaga 180
agtcaatggt ggaaaagctc ttattgacct gngagccagc atcaatttga tgccactctc 240
catgtgcaga agattgggag agttggaaat aatgcccact cgaatgactt tacaattagc 300
tgaccgctcc attactaggc catatggagt aattgaagat gtgttggtca gagtaaaaca 360
ttttatcttc ccggcagact ntgtggtaat ggatatctct aaagatactg a 411

<210> 12501
<211> 400
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12501

agcttcaaca ttcaattntg agcgtctcga tatatgacga gactacatca tacatccgag 60
taaaaagtta tagtcgtttg aatttgctca gagcttcaac attcaatttc gagcatctcg 120
ctatattacg ggactcaatc agacatccga gtaaaaagtt tgttgtttga attggctgag 180
agcctcaaca ttcaatttcg agcgtctcga tatattaagg gactcaatca gacatccgag 240
taaaaagtta tggtcgtttg aatttgctca gagcatctac attgaattgc gagcgtctcg 300
atatattacg ggactcaatc agacatccga gtaaatagtt attgtcgtcg gagtatgctc 360
agaggttcaa cattcaattt cgagcgtctc gatataattac 400

<210> 12502
<211> 345
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12502

ntcactcgga ggcncattc aggcgcataa tatatcgaga cgctcgaaan tgncaacgga 60
agctatcgag aaattcaaat ggtctatact tctaactcgg aggtcctata gaggtgcata 120

atatatctag acgctcaciaa ttttacaatg gaagctctnt ggctntacaa atggtcataa 180
 cttttcactc gagcgccga ttaaggcgca taatatatcg agacgctcaa aagtgaacaa 240
 tggaagctct tgagcaattc aaatggcat aactngtcac tcggagggtcc gattcaggcg 300
 cataatatat cgtgaccgct gaaattgaac aatggaagct cttga 345

<210> 12503
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12503

tcagctgctt ctcaactcnn tgcttctcaa tgccccacca agaaaacccat gattatgncg 60
 ggccaagaca tttatagtag ccaagatgag gttactactt caccctttcta tagtgacagt 120
 gaagaagcaa aagggaaaaga atntagttaa gaaatctacc cccaagaaga agggaaacctt 180
 ttaatggtea gaaggcttct agggaggccaa tctagtgaact tgaactaatc tcaaagagng 240
 aatatcttct acacaagggtg taaaattttt tataacatgt gctctctcat tgtagatggt 300
 ggttcattgt gcaattgttg tacnacaaga ttagtctcta agttaagcct tgctatcact 360
 ccccatccaa agccttacaa acctcaatgg ctcaatgaac aaggagaaat gatagtcaat 420
 caacaagtga aagtgtcatt ctc 443

<210> 12504
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 12504

agcttataat atattgatat gctcgaaatt atacattgta agctctcgag aaattcaaatt 60
 ggtcataact tttcacacgg atgtccgatt cgggcaaata acatatcgag acgctcaciaa 120
 ctaaacaacg gaagctatag agaaattcta atggtcacaaa cttttcacac ggatgtccga 180
 ttcaggcgaa ttacatatcg agacgctcaa aattgaacaa cagaagctct cgagaaattc 240
 aaatggcat aacatttaac tcgaatgtcc aatttaggcg catcacatat agtgacactc 300
 gaaattgaac aacggaagct ctctgaaat tcaaatggtc ataacttttc aactgaggt 360
 ccgaatcagg cttataatat atcgatatgc ctcgaaataa acatcgaaaa ctctcgc 417

<210> 12505
 <211> 454
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12505

```

agctntaagt aaaaaggaag catgaaccat gatagcttaa gaatcccgaa tctaattgtcc 60
atgctcantt tttaagactc caccaaaaca tgaaacactt ggatttccca acggactgcc 120
atttttaagg ctgtcttttc aaagttcaaa ttaataaaaat ggtaaatagt cactttttata 180
tctgaatgtg tagtttacta acaaattgtg ccctganaga tgaaaatata aaatttagtt 240
cccaaatgg taaaaagtgt gaaaaatata tctgactctt aacttccgtc catcaccatt 300
ataaaaatag tatacgtgac acaaatgaat gaatttatca ctgaaatgat tgtcaacgtg 360
attatctcta ctttntgtct tcccactctc tangaatatg aatgagtaaa tagtcacttt 420
tgtccatgaa tatgtaattc gctaacaaat gtgt 454
  
```

<210> 12506
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 12506

```

gacactatag aatctaagct tgacaggaat tacttgtatg gttggatggt taattctggt 60
tgttctctgt gcggagatga tggtagacgc ggtgaaccag aagcgggaagt ttcttttgggt 120
gaggttagcca tggaaaagca gagcgtttgg aatgatttcg taaatctcag aaaactattg 180
ggaaatgctg gtgaaaacac gaatgccaa gagatataaa tttgaatgaa gaatgtagag 240
gggcgtgtga agcaacggtc gaatttgctt tgtggtgaac gtgctattaa tgtaagtga 300
ttcgtttggg cacgttcaga ttgctgtagt tgctataatt cctctagcaa acaaatgccc 360
agcttgcccc tcagttttcc aaactgattt gca 393
  
```

<210> 12507
 <211> 356
 <212> DNA
 <213> Glycine max

<400> 12507

ctgcagctct tggatgctac ttttatactt tcagatcata atgcacccctc caaacaagga 60
gaaaatggca ttcattcattg cagatgccaa cttttgtat aggaacatgc catttgacct 120
caaaaacata ggcgcgacat atcaacgact aatagaccga gtcttcaaag aacagatcag 180
acgaaaaatt gaggtatatg tggacgacat ggttgtaag tctcaaagca taccctaaca 240
tctggtggac ctggaagaag tatttgggaa ctatgcaaat acgacatgtg cctcaacctt 300
gaaatatact tttggggtag gtggcgacaa gttcctcggc ttcatgatca cacatc 356

<210> 12508

<211> 384

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12508

tatacggcct angatgtggt tttgtgactg ttttcaattt aaacacaagt cttttacttg 60
ccacattggt acaactccct ccatcaatga tcacatgca aactttgcc a ttgatcaaac 120
atctagtgtg gaaaatgttt tctctttgac tttcctccat agacttcaat tgatgaccaa 180
gtaaccgcct aatcatcaac aattctccct ccagtgtttt ctccacttcc tctcatcat 240
cctcactctc ttctcccttt tcaacttcag actcattaat gtactctcca tctctaagaa 300
tcatggcttt cttgttaggg cactcatatg cataatgtcc caagccttgg caccaaaagc 360
acttcacatc ctggctcttt tttt 384

<210> 12509

<211> 216

<212> DNA

<213> Glycine max

<400> 12509

cttgattat acgtagatga tattctgctt gcgactaatg ataagggtat actatatgag 60
gtgaaacaat ttctctcaaa gaactttgat atgaaggata tgggagaggc atcttatgtc 120
ataggcataa agatccatat agaaagatct cgatgcattt tacgctcgtc tcaagaaacc 180
tatatcaaca aagtcttaga gagaattaat atgaaa 216

<210> 12510
 <211> 375
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12510

ataaactcgga tytccganc tggcgacaaa ttgatcgaga cacttgatat tgaataacag 60
 aagctctcga gaaattcgaa tggctctaac ttttcacacg gatgtccgat tggggcgcat 120
 aatatgtcga gacgctcgaa attgaacaac ggaagctctc gagaaattcc aatggacata 180
 acttttctact cggaggaccg attcaggcgc ataatatatc gagacyctcg aaattgaaca 240
 acggaagctc ccgagaaatt caaatgggtca taacttttaa ctcagaggtc cgattcaggc 300
 gcataatata tcgagacgct cgaaattgaa catcgaaagc tctctagaaa ttcaaattga 360
 cataactttt cactt 375

<210> 12511
 <211> 482
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12511

gatccttgag tcacctgcgg catgcaagct tcccaccaat ggtattttaa attttatgat 60
 gtcatttctt cattcagctn tgaagagaat atcatggatc actgtatata ccagaaggtc 120
 agtgggagta agatttgttt ccttgattta tacgtagatg atattctgct tgcgactaat 180
 gataagggta tactatatga ggtgaaacaa tttctctcaa agaactttga tatgaaggat 240
 atgggagagg catcttatgt cataggcata aagatccata gagaaagatc tcgaggcatt 300
 ttaggcttgt ctcaagaaac ctatatcaac aaagttttag agagatttaa tatgaaagat 360
 tgtttaccaa gtgtagctcc cattgtgaag ggtgacaaac ttgctntgag tcaatgcccc 420
 aaaaatgatt ntgagcgga aaacatgaaa aatattccat atgcttcagc agttggaagc 480
 ct 482

<210> 12512
 <211> 368
 <212> DNA
 <213> Glycine max

tcttttcccta ggtgtgcaatt taaagaaaat gataatgac aacagagcct ttacacctta	60
atcttttattc aatttttatg aaggccaatc gatacagtaa attggtatac cacagccatc	120
agagaactag ttccagaaat tctctaaaag ctggtgcttt aattagatag atgctgccaa	180
acggtgtttt attgcccaaa tgaaaaattc tttattacta gtaaagttaga actgatatat	240
cattttctgaa ttgtttatgg cagcttcata cttttccaga aggaaaagtg tatcaagaag	300
atgtgcctat aangcgggtg aaatggggaa ctgctagcct aattgttcga gcacctataa	360
ctccaatt	368

<400> 12513

gcgcttcaac atgatgactg acaagtatgg cataaacccct ggtatcaatc attattcttg	60
tatggctgat catcttggtc gtaaggaca tctcaaagaa gctttagaaa ttattaaaag	120
tatgccttct gaacctgatt ctggaatagc gagtgcattg ctctctgctt gcaaacttca	180
tggtaagatg gagatgggca agcatgtgtc tgaacagcta tataaactgg agccccaagt	240
ggcacgttcc atacgcggag atggctaaca tatatgcac agctgaaatg tgggaaggca	300
ttgcagctat tataagaaat atgatatata ttcaagtcac gaaa	344

```
<223>      unsure at all n locations
<400>      12514
```

agcttgggatt	tccttttagt	agggaaacta	ntctttctaa	gatggagcca	aaccagtc	60
ccctcattaa	gaactagctc	ttttcttctt	ctattgcctt	tagttgaata	cacctttggt	120
tggttctcta	ttttgttctt	aacctctca	tgcaactctt	ttacaattt	tgacctagat	180
tcaccttctt	tatgtataaa	agaagtgtcc	agtggaaggg	gaatgaagtc	taacagtgtt	240

aggggattga acccatagac aacctcaaaa ggggactgct tgggtggttct atgaaccccc 300
 ctgttttagg caaattctac atgaggaaga tactcatccc aagacttatg gttgcctttc 360
 agaagagccc ttaanagggt ggataaaaac ctattcacta cctctgtttg cccatcagtt 420
 tgtggatgac aagtgggt 437

<210> 12515
 <211> 447
 <212> DNA
 <213> Glycine max

<400> 12515
 agcttctata gaaggtttgt tcttaatttc tctacaattg catcacctct caatgagctg 60
 gtgaagaaga atgtggcatt taactggggt gaaaaacaag agcaagcatt tgatttgctc 120
 aaacaaaagc ttactaaggc acctgttcta gctcttctctg actttttctaa aacttttgag 180
 ctagaatgtg atgcctctgg agtggttagtt ggagctgtat tgttacaagg tgggcaccct 240
 attgcttatt ttagtgaaaa acttcatagt gccaccctca actacccac ctatgataaa 300
 gagctttatg ccttaataag agccctacaa acttgggaac attaccttgt ttccaaggaa 360
 tttgtcattc atagtgatca tcaatcactt aagtacatta gagggcaaag caagttaaac 420
 aagaggcatg caaaatgggt agagtac 447

<210> 12516
 <211> 397
 <212> DNA
 <213> Glycine max

<400> 12516
 aactcaagct tcatcgaaa gcctatcgat gctcttggtg gtgtataagc atttttgggg 60
 caagccttgt tgaggctcgt gtagtctacg cacatcctac atttcttagt tgetttcttc 120
 accacgatga cgttggttag ccaagttttg tgggccactt ctctaataaa ttttaacaacc 180
 aaaagtttct cggttttcac ctcaattgtt ttctctcttt cgtctctcag tttgcgcttc 240
 ctctgagcta tgggtttatc cttagggaag attgccact tatggaaaat gaagtcaggg 300
 tcatgcctg acatgtcaga agcactccat tcaacaagt cggcattgtc aaagagcgct 360
 tgagttatct ccttttgac ttctgtctcc atctctt 397

<210> 12517
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12517

agcttaatag ctcgataact gatcataata ntatagetta taacacactc gagcagggac 60
 tagtcaacac acttactgaa catacactta ctacaatgca taaagtataa aaaataaata 120
 cacttgaata agcttgatct cacaattctt aacagcctca cgaacaacat ggaaatcact 180
 agaatatgct atgtctttcc atgctaaaca ggattttcag caatgacaat tgcttattta 240
 ctgtcacaat aaatctcagt agcgtccatc ttctccactc ccaaatcaaa cataattttc 300
 ttcaaccaa tggttagtt agttgctgca gctgctgcta catattcactc ttccagcagta 360
 gatngagata caatgtcctg cttatttgag ttccaagaga acatgtgtga gcctaacgaa 420
 ataacatatt cagtagtgc 440

<210> 12518
 <211> 437
 <212> DNA
 <213> Glycine max

<400> 12518

agcttaatag ctcgataact gatcataatc tcaaagctta aaacacactc gagcaagtac 60
 tagtcaacac acttactgaa catacactta ctacaatgca taaagtataa aaaataaata 120
 cacttgaata agcttgatct cacaattctt aacagcctca cgaacaacat ggaaatcact 180
 tgaatatgct ttgtctttcc atgctaaaca ggattttcag caatgacaat tgcttattta 240
 ctgtcacaat aaatctcagt agcgtccatc ttctccactc ccaaatcaaa cataattttc 300
 ttcaaccaa tggttagtt tggtgctgca gctgctgcta catattcagc ttccagcagta 360
 gattgagta caatgtcctg cttatttgag ttccaagaga acatgtgtga gcctaaggaa 420
 aaaacatatt cagtagt 437

<210> 12519
 <211> 411
 <212> DNA

<213> Glycine max

<400> 12519

agcttaggaa tcaatagcag ttgtgtgtt ttagttttta tgtataataa ttctactggt 60
accctcccac caaatctttg ttttggaag cacctgggtca ggctgaatat ggggtggcaat 120
caatttattg gcagcatacc tcttgatgta ggaagggtga caactcttac aagggttgaga 180
cttgaagata ataatttaac tggggcactt cctgattttg aaactaatcc aaacctctct 240
tacatgagca tcaacaacaa caatatcagt ggagcaattc catcaagttt gggaaactgc 300
acaaatctct ctctttttag tttgtccatg aacagcttga cgggtcttgt accttcagag 360
ctaggaaacc ttgtgaatct tcagactttg gatctttctc acaataactt g 411

<210> 12520

<211> 423

<212> DNA

<213> Glycine max

<400> 12520

agctataata tattattaca ctcgattat atcatcagaa gctctcgaga aattcaaatg 60
gtcataactt ttcacccgga tgctcgatta tggcgaaatca catatcgaga cgctcaaat 120
tgaacaacgg aagctcttga gaaattctaa tggtcataac ttttaactcg gatgtccgat 180
tcaggcgcat cacatataga ggcgctcgaa aaggaacaac ggaagctctc gagaaattca 240
aatgggtcata actttccaca ctgagggtccg attaaggatt ataatatatc aagacgctcg 300
aaattaaaca tcgaaagctc tcgagaaatt caattgggtca tcacttttca cacggatgtc 360
cgattcgggc gcataatatg tcgacacgct cgaaattgaa caacggaagc tctcgagaaa 420
ttc 483

<210> 12521

<211> 431

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12521

agcttatttc tcattttgtt cttttacttt aaatttggtt atntgtcgtt aaagtgaatt 60
tcgtaatagt cgcacgacgt ttgatttcaa taaatctcct ttacatgtt ttttaaatct 120

tttaatcaat atctatttta taaaatcaca atcgtccatt tcatgttttag tgcaatttgt 180
 gtgaatttac tttataaca aataacatca ctatttttgg actgaaaaac aaacacacaa 240
 acaccttctc ataattcact aggtcagggg taaagatttt tagatatcaa aagaatacag 300
 gcttatagat ggaattgctt ggagccaaat atatatatat atatatatta ttggaaattt 360
 ctctataatt aagggttggtt cacattcaag taaacatgca agttcaaata catgagaaat 420
 tgaagagtac a 431

<210> 12522
 <211> 454
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12522

agctntcttc aatcgtcaat acgggtgtta tgtttgagaa atcttcaatg cctagtatat 60
 attgtattct ttccatgttt caattggatg aagctcgtct ctttctcacg gataggacat 120
 gcatgatgtc ctttgacact atatccactc aaattctcat atgctggaaa gtcattaatg 180
 gtacaaatga tcaattgtct tccattgggg agaatcagcc agatgtcaga gcaatccatc 240
 acttttttct gccatatgca tcatgttcat tagcaaacaa tcgcttaaac cttggaatta 300
 ttgaaagata ctacacacacc ttgctggac gatcattggt tgtggttgca tcactactac 360
 atttgctcgc cttcattntg taccacgata ccccatcatgt atggaacttg cacantttcg 420
 gcaactaatt totatacaat atgcaatcat tatg 454

<210> 12523
 <211> 435
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12523

agcttcatga tgttgaatca atattgatgc ttgagttttg atgataacaa agatgatgac 60
 aaaaagccca agagaatgag ttcaagattg aatcaagaac acttcaagaa tcaagagaga 120
 atgagtttca agatttaagt tgaagattca agaatacaga aaagactcaa tcaagataag 180
 tactaaaaag tttttcaaaa cattgagtag cacatgaatt tttcacaaaa ctttttacca 240

aagagttttt actctctggg aatcgattac cagtagcaaa aattgttttc aaaaagcttt 300
 caactgaatt tacaatgttc caattgattt caaaatgggtg taatcgaata caatgatttg 360
 gtaatcgatt accagtggtg ttgaacgttg aaattcaaat tcaaatgtga agagtcacat 420
 cctttcacan aaatg 435

<210> 12524
 <211> 376
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12524

agcttgaaac tgaacaacgg cgctctcaga attttatggc ttataannca ttatagtgcc 60
 gatgcgggga aataatatat cgagacgcac gaaattgaac aacggaagct ctcgagaaat 120
 tcgaatgggc ataacatttc actcggatgt tcgatccggg gacataattt atcgagacgc 180
 tcgaaattga acaaccgaag ctctcgacaa attagaatgg tcgtaacttt tcacgcgaat 240
 gttcgattcg gggacataac tcatctagac gctcgaaatt gaacaactga agctctcgag 300
 aaatttgaat ggtcataagt ttccacacgg atgtccgatt cgggaacata atatatcaag 360
 acaatcgaaa ttgaac 376

<210> 12525
 <211> 383
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12525

tctttccatg cctcaatcgg atgaagctcg tctctttctc acggatagga catgcatgat 60
 gtcctttgac actatatcca ctcaaatact catatgctgg aaagtcatta atggtacaaa 120
 tgatcaattg tcttccatcg gggagaatca gccagatgtc agagcaatcc atcactntt 180
 tctgccatat gcatcatgnt cattagcaaa caatcgctta aaccttggaa ttattgaaag 240
 atactagcac accnttgctg gacgatcatt ggttggtggg gcatcatcac tacatttgtc 300
 acccttcatt ttgtaccacg ataccccaca tgtagggaac tcgcacattt ccgcaaaata 360
 attnctatac aatatcgat cat 383

<210> 12526
 <211> 369
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12526

tttacattct ggaatcggtt atcctatctc tgacagccaa tggatgagtc ctgtccaggt 60
 agtcccgaag aaaaccgggc tcaccgtgat aaaaaaatga gaaggatgag ttgattccta 120
 ctcggttgca gaacagttgg agagtatgca tcgactatag gaggtgaac caggttacca 130
 aaaaggacca tttccactg ccattaattg gccagatgct tgaacgcctg gtaggtaaat 240
 ctactactg tttccttgat ggtttttctg gttatatgca aatcactatt gtcctgaga 300
 atcangaaaa gaccacattc acctgccctc tcggcacttt tgccatatagg aggatgcctt 360
 tgggcctat 369

<210> 12527
 <211> 379
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12527

tttagaaaa gtcaatgcct attgtatact atttttcttc catgtttcaa ttgtacatgg 60
 cttgtgtctt cttcatatat agagcatgca tgatggccct taacactata tccactcaaa 120
 ttctcgtatg ctggaaagtc attaatggtc cgaaatagca ttgcacgcaa cttaaatgct 180
 ttattttgat accatcaaac acagtaacct ctttgtecca caactttgtc aagtcttcaa 240
 tcaagggact gagataaata tcaatgtcct ttcctagtgt tcttgggctt gatatcatca 300
 tagataacat catgcatctt tgcttcacgc acaaccaagg agacaagttt taaattacta 360
 gcanaatang ccatgaact 379

<210> 12528
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 12528

agcttctggt tggattgat tcttggtttt accctttaag accttcatgt accactcaac 60
tggatacatc cactgtaaaa aaatgggatt acataactga atctccctca ccaaatgcac 120
aattaagtga accataatgt caaaaaatgg tggaggaaaa tacatctcca attgacaaag 180
gacaatggca gtctcattct ccaaatcatc caattgtcga gggccaatgg ctttgtaga 240
gatagcatta aaaacaaagt acaaacgatt tattgcaacc ctaactttgt caggcaagat 300
accgcgaatc gctacatgca atagttattg cattaacaca tgagaatcat gagacttcaa 360
gccaaccaat tntagatcat taatggatac aaggctcttg atatttgaag agta 414

<210> 12529

<211> 367

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12529

ttacgtctat ggacttagat tggttgccct ttctttcatt ntagaggcac ccatgtgatt 60
tggatatcaa tccctttaaa ctttgaaatg accacttttt catttatattt aattatgttt 120
atttttggta tacgttttga tgcattggat acatgcctcg aaatacaagg ctaaaacct 180
atactactag aatggccaaa atacaaggcc caaacgaagg aaaaacctat tctaataattt 240
acaaagataa gcgggctcat acttagccca tgggctcgaa atctacccta aggctcatga 300
gaacctagg gccttccctt gaatctctgg cccaatctac ttggagtctt ctatccaatg 360
cccttgc 367

<210> 12530

<211> 405

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12530

agcttagcag attatcagca tttttgatan ttaaatttcc ttgttgccgc tcagtccaat 60
accacttcaa ctcatcttca aacacagccc agttaaaatg cttcacaacg aagttaacaa 120
agtcctcatt gtcaatgttc attctactga tgcattgttc aattgggaaa tcattctgtg 180

tttgtataac ttttaccgag gtgttagcat agctgccaga gtccagtcga gagaatttca 240
 ggataacatc acgtttacta atctgcagtg cagcaagtac gtataaatta aaatatatat 300
 aaaaataatg caaatcatct catattctat caatgaagaa tggatcatgt aatattaaga 360
 taaggcacag aagtctgaaa catacttagc ttcatgcaac attta 405

<210> 12531
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12531

agcttcaaga aaaagatggc tcttagcaat anttcttatt tccagaaggg aattctatca 60
 atagacctcc aatctttaat ggagagggtt accactactg gaaaaccgca atgcaaat 120
 ttattgaggc aatagatcta aatatctggg aagccataga aatagggcct tatataccca 180
 ccatagtaga aagagtttca atagatggta gttcatcaag tgaaagcata accatagaaa 240
 aacntagaga tagatggctc gaagaggata gaaaacgagt acaatacaac ttataagcca 300
 aaaacataat aacatctgcc ctgngaattg atgaatattt canggtatca aattgtaaga 360
 gtgctaagga gatgtgggac actcttcgat taacacatga aggaactaca gatgttaaaa 420
 gatctagaat atatgacta act 443

<210> 12532
 <211> 388
 <212> DNA
 <213> Glycine max

<400> 12532

tggtggctaa ttcattggcat taatgtcca atacttcaaa atattgccct taagctactt 60
 gcgcaacctt gttcatcttc ttgttgtaga aggaattgga gtacatattc atttatccat 120
 tctttaaaga gaaacaagat ggcaccacat agagttgaag atttagtatt tgttcatagc 180
 aacctacgac ttctctcaag gaatactcca caatatcatc aagaggaaac taaaatgtgg 240
 gatgtagctg gagatgattt tgggtcactt gatgattgtg gtattcttga aattgttagt 300
 ttgtctttag atgaaccaga gttagagggt gtctttttca atgatgattg ctagtattgtg 360
 gaattcttga agacttgaag ttgctaatt 388

<210> 12533
 <211> 441
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12533

```
agcttgtgca ttcaatatcc tgataagggtt gttccatatg ttctcaagac tggactaata 60
catttgcatt attgggaata gtaaatttga gaatgccatg ctagatctag gagatcagtt 120
agtgtcatgc ctctgtccat ttccaattct ttatcccttg gacctttgca atctacagat 180
gtgggtgattc atttggcaga tagaagtgtt gcttaccctg cagggtttcat agaggatgtg 240
ctggttcggg ttggtgaact tatttttctt gttggatttt atgttcttaa tatggaaaag 300
ggagttttcc catgggtcaa ttccaattat tttaggtagg ccatntatga aaacagcccg 360
aaccaagata gatgttatgc tagccattgc tatagaaatt gtgatattgt tgtcatttaa 420
cattttgatg catgaacatc c 441
```

<210> 12534
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12534

```
agcttgtccc acaagcctct cctacanttg gttcatgaaa ggcaaaagaa agtgggtcttt 60
cctcatggct tctttgagct tgtggtaatc gatgcatatt ctccagccag tgaaagtctt 120
tgttgggatt aggtcattct ttctacctg aatgatttct gtgccccctt tctttgttac 180
cacctggatt gggcttacct aagtactatc agaaatgggg tagataatcc aagcctctag 240
aagcttgagc acctcttctt tcattgatgg gttaaggctt ctcttgggct gtctgactgg 300
tttgtaatct tccgccatca ttatgttggt catatagtag acagggttga ttcttttgag 360
atctgatatg tgccacctta ttgctcactg tcaatgtaca tccccttctt ggtgaagatg 420
tccttcatga atttggcgt 439
```

<210> 12535
 <211> 363

<212> DNA
<213> Glycine max

<400> 12535

taaaatgtttg taatcaaata tgttttgctg tggatatga aggttggtac ctgcggtaat 60
gtgcctcttg agtcatcttt ccagaaagtt ccagatgtg tatatactc aacaagttaa 120
tatgagtatc gaggatggaa ctcaaaagct gccaatccta cacaccgtcg gcttacttgg 180
gyccttagac tgcctggaagt aagtactga ctatttttct tgggttagtt attatggaat 240
t-aatacttt actctgacat cctttgtaca attttacttc tattattgcc cccaagagcg 300
tggcagttaa ggacatgctt cttctgatta aatttcaagt tgaatttatt gttctgaatt 360
aat 363

<210> 12536
<211> 396
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12536

tcaaggaaca aagaatttct tattgtttga ccttctttga tgacacanaa gaaatgtgtt 60
tgttgttggg gtctttgggt aaagtgaag atgcaaaaga agtggtgaca acacctcttc 120
tcaaaaaccc ttgcaacct tcttttact atctttctct tgaagctatc tctgttgggg 180
acactcgatt gtccattgag aagtccactt ttgaagtng ggatgatggg aatggtggtg 240
tgatcataga ctctggcacc acaatcacct acgttcaaca aaaggcctat gaggcactca 300
aaanagagtt catttctcat accanacttg ctttgacaaa actagctcaa caggggtgga 360
tctatgtttc tccttgccat canggtcaac acaagt 396

<210> 12537
<211> 509
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12537

gatactgatt tgaattatg attctcataa actaggagat tgggaaacaa aaacttcctc 60
atcaatatat ccatttaggg aaacactctt tacatccatt tggtaacct taaaattcat 120

tattcaagca taagcaagaa gtaaccttac aacctctaata ctactaccg gtgcataatgt 180
ctcatcaag tctataccat cttgtgggtt ataacctttg gctacaaggt gagccttgaa 240
aacctatatt cctagtata acactatatt catcaagctt gttcttaaaa acctatttag 300
ttcctatgat gttcaagtta ttagtacttg ttatcaatc ccatacatca ttcccttttaa 360
attgatntaa ctcatcatgc atagacataa tccanaactc atcttttaat gcacatcaa 420
aaattaaggg ttcaacttaa gacacaaaag ccatagttc acaaaacaaa cttaaagagt 480
gtctagtaga tactctcttc tcaatatca 509

<210> 12538
<211> 475
<212> DNA
<213> Glycine max

<400> 12538
agcttcgaga ttttctctt gcaattatgt atccttaaca tgtgcgagaa gtttctgta 60
tatcttgaga gacttgctgt ggatattaaa gataagtcac ttggtacagt gtcaatacac 120
gtttcaggaa agaattgttc atgatcttca acattgttag tctttctctt gttgtaggaa 180
actaattctt ttccctagac taaacacaa acattctctt tataatgaat ataacataat 240
attctattat tgacttatat tgtgttaaag atggaaggat ctcaagagta agtctttatt 300
atagtaactt tcagggaaaa ctcatagag ttactcaatt tcataataa ttccacattg 360
ttttataatg gaacatcata tttgtactc taaacaatca attaactttt actctactaa 420
gagactatgg tctcaataga tccacatata ttatataata ttattatat tctat 475

<210> 12539
<211> 401
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12539

gtcacctgag gtcatgcacg cntngngatg cttgtccaaa aggcaaacat gtcatagtct 60
ctnttaaat aaaaagggtg aagtttctac atctaaacct ttggaacttt tacacttggg 120
cttgcttggc cctctagaa ctatgagttt gagagttgac tattatgctc ttgtcattgt 180

tgatgattac tcaagattta cgtggacttt ttttcttgct ttaaaaagtg ttgcttttaa 240
agctttcaag aaacttgcaa aagttattca aaatgaaaaa gatttgacaa ttaagacctt 300
gagaagtgat catagagggtg aattccacaa tgaagatttt aaaacttttt gtgaagaana 360
tgggatttca cgtgattntt ctgctactag aacttcacaa c 401

<210> 12540
<211> 386
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12540

agcttcttag ttcttatgat gcagatgggt tttatctacc tcatgcactc ctctaattgac 60
tatggcatca tttctggcgc taaactgctg ggagttggaa gccatcttct caattaaatt 120
tctggcttca gcaggagtca tgtctccaag ggctccacca ctggcagcat ctatcatact 180
tctctccata ttactgagtc cttcataaaa atattggaga agaagctggt ctgaaatctg 240
atgggtgggg caactggcac atagtttctt aaatctctcc cagtactcat acaggctctc 300
tccactgagt tgtctaatac ctgagatata cttcctgatg gctgtggtcc tggaagcann 360
ggaaaattnt tctaagaata ctctct 386

<210> 12541
<211> 351
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12541

agctagccac aagaatatct aggatgcttt gcttcattga atgaaagcag tgagagcagt 60
gagtgtgtgg tggaacatca acatgggtgct agttttcata atgaggtgga aacagttaat 120
gagtccaaga agagcaaggg gcatgagtgc ccaatttgcc taaaggtttt tccatgtggc 180
caagccttgg gtggccataa gagatctcat atggttggtg ggtctaagag tagaagcttt 240
caaacaattg tgcttcanga accagtggca gaaattaggg acttccttga tcttaattctt 300
cttgctgcta ctaaggaaga aagcaatagc catgctgact ctaacagtaa c 351

<210> 12542

<211> 196
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12542

tatgacacag tctcatggtc ggtcctggac attatgcatg atagacagcg ctccctgcat 60
 aaatggacaa agcggatctc accttgtctt cactcagcaa ccatctctat ccttattaat 120
 ggcagcccta caaaggagtt taccctatct agaggcttga ggcaagggga tcccctance 180
 cctctactct ttaaca 196

<210> 12543
 <211> 397
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12543

acgcggacaa gcacgcagg gatgttttat ttgttcctgn ggactgngtt ctgggtcgtc 60
 ttccccccta ccgacagtc cccgccaaag gggatccctc gaccaatgtg aaattggctc 120
 gccgctatta tggcccatct caggtcacgg ctaagatagg accagtagca tategtgtga 180
 actttccggc aggtgtacgc attcaccgg tgtttcactg ctccaacctc aaaccttttc 240
 ggggcgagcc cggatccact cctgcaattc ctttaccacc caatttccat gagaatcagc 300
 cgcttatatt tccccttgcc attctgggat ctgctcgcg aacagctgag cctcacaacc 360
 ctgggcaggt tttggtacaa tggcaggggc tctcacc 397

<210> 12544
 <211> 330
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12544

tatcttttgt gtgggatacn caatgtgagc atagtttcca gacctttttt gaaagnataa 60
 cgaccgctcc agtgctagtt ttgcctaacc cgagagaacc ctttgaggty tattgtgatg 120
 catcanagat gggtttatgc ggagtgttga tgcaaaatga ccaagtggty gcctatgctt 180
 ctagacaact taagactcat gagaaggaat atcccacca tgatctaaag ttgggtgctg 240

agtttttgcc ttaagaattg aagacatata tgtttggtc taagttcgaa gtgttttagtg 300
atcataagag ccttaaatac ttgttttagtc 330

<210> 12545
<211> 425
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12545

agcttattgg agttatcatc acagaatgct ntttatgcaa tctaccccg caagggcatt 60
ggatagaaga ctccaagtag attgtgccag agatccaagg gaaggcccta gggttctcat 120
gagccttang gtagatttcg agcccatggg ctaagtatga gcccgcttat cttttgtaa 180
attaggatag gtttttcctt tgtttgggcc ttgtattttg gccattctag tagtataagg 240
ttttagcctt gtatttcgag gcattatgag tagtctttgt agtagagaat tttttgtatt 300
ttcatgtatt ttgtcatggg ggtgagctta gctattatag ggggtgtgta gctaagctct 360
acctttctcat ctcaaggagg tgagcttagc tattagagag gtgtgtgtag ttaagctcta 420
gcttc 425

<210> 12546
<211> 507
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12546

atcctctgag tcacctgccc catgcaagct ngctcgtctt tctgatnt atcatgcata 60
ttnttctgat gatgaccgat tgtcaattag ggatcaactt gaaacttatg tgcctcaagt 120
gagaagaaat gcttcttttt ccacttgatga agatgttcaa agtttggcta tgaagatgg 180
tcaaaactgag aaacatttgg tatttccatt ggtttataaa cttattgagc tagctttgat 240
attgtcgggt tcgacagcat ccgttgaaag agctctttca gcaatgaaga ttatcaagtc 300
taaattgcgc aataagatca acgatgtgtg gttcaatgac ttgatggat gttacaccga 360
gcgggagata ttcaagtcac ttgatgatat tgatattatt cgaacattta ccgcanagaa 420
gtctcgana ggacacttgc ctcgtaattt tatttaacct gctatggtaa gaaatatgtt 480

atctctttat tttaaactat atttttg

507

<210> 12547
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12547

tctataatat tgcactaca tgcgatgatt cttagtattg tccaagggtat ataattttgt 60
tagctcaaaa taacctttat caaactcata taaccataaa tgtgactgcc aagtaaattt 120
aagcaatggt ttaattagat gtattttgat taaccgtaaa caaatacatg ttaaaagtcg 180
cgttttatgc actattaaaa catattntgt aaagtatgcg tctgatgtgg tagataataa 240
aaaanaataa agtagtgtct atcaattatt atttttaaaa aaatactttc ttgagtcctc 300
tttatttaat tatattgtta atttaagaat aaatacagtg acagttaana aaccatccct 360
attcgtaaaa ttgacctttt gaacttgtaa cttaacattg ttgtgaaetc caatggatga 420
aatatataa ta 432

<210> 12548
<211> 510
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12548

gcattgtcgaa cgttannaaa ttgaatgttt gggtttaagt tntcaattat aaaaaaaatg 60
cttgaacctt tattgtttac gcttgcatct ctccttactg agttctcttt cttcttgagt 120
gtgagcttct gcttgtgctt gctttgtgct ccttggttca aatttggtgc ttccttcctt 180
caagtgtgtg cccttatcct tcctttctag tgagtgttta taaaataaat aaaatgtata 240
tattctgtta ataaatatta taagtttaag ttacttagta ttaacaaaata ttttaagtta 300
gttagtagtg aaatagtacg ttagttacta ttaacaaaaa ttctaaattt aagttagtta 360
gtatcggtag gtattgtgtt gatatttctt acgtattaat agatatatca atgttagatt 420
agttactata aaaatattat ttggttggtt agaatgacaa tttattgagt tatcgtagt 480
attgtcagac attatatgtg tgatatatat 510

<210> 12549
 <211> 397
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12549

tggactgac cacttgttgc ccaagtttca tagtcttgca ggtgaagacc ctcataaaca 60
 tctgaaagaa ttccatattg tctactccac catgaaacct tcagatgtcc acgaagatca 120
 catcttttcta aaggcccttc ctcattcttt agagggagtg gcaaaggact ggctatatata 180
 ccttgcctca aggtccatca caagctggga tgacctcaag agagtattct taganaaaat 240
 tttccctgct tccaagacca cggccatcag aaaggatatn tcaggcatta ggcaactcag 300
 tggagagagc ctatatgaat actggggaga gattaanaaa ctatgcgcca gttgccttca 360
 ccccnnnat ttgagtaact tctctctata ttttatg 397

<210> 12550
 <211> 297
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12550

gcttccacc caaaagagtg tcttggataa gtatcttaca gaggaagctt attgaaggan 60
 aagaatgaga aagatagagt gatgcaatcc taccctctaa gggcattgga tagaagactc 120
 caagaagatt gggccagaga tgcnagagaa ggcctacgg gtctcatgag ccttaaggta 180
 gatttcatgc ccatgacatg ggctaagtat gaactcactt atctttggat attagattaa 240
 gggatcatta ttattggccc ttgcattcag ggctccataa tatatgtagg gtaccct 297

<210> 12551
 <211> 333
 <212> DNA
 <213> Glycine max

<400> 12551

cttggatatg atggcacaca taatattata tgtcatatat tctgcgtatc aggtgtgctc 60
 ttaatgtaga attttaggct actaagcttt caccttatca attattataa ttataactgc 120

gtaacccttt ctttcgaact tttggcaatg tcaacctgtg ctggtagagc aagatcacga 180
 caaaacagag aatcggaat catgaaaacg taatgcacga actcagggtta atccaaaccc 240
 tgatccagtt ggcactgtcg agccttcaac gacaagtact acttcctaata atagactca 300
 agactaatat gtatctggag ttccaacata ttg 333

<210> 12552
 <211> 322
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12552

agcttcagaa tactttttcg agcgtctcaa tatattactg gactcagtc gacatccgag 60
 caaaacgtta ttgtcgtttg gattaactca gagcttcaga attcaatttc gatcgctcgc 120
 atatattacg ggtctcaatc agacatctga ggaaataagt tattgtcggt tgaatttgct 180
 gagagcttca acattcaatt tcgagcgtct cgatgtatta cgggacttaa tcagacatcc 240
 gagttaaag ttattgttgt ttgaatttgc tgagagcttc aacattcaat ttcgagcgtc 300
 tcgatattnt acgggactca at 322

<210> 12553
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12553

agctntntag caattcatat ggtcataacg ttctactcgg atgtcggatt caagcgcata 60
 atatatcgag acgctcgaat ttgaataatg gaagctattg agcaattcca atggtcataa 120
 cttttaactc ggaagtcgga ttgaggcaca taatatattg agacgtcga aattgaacaa 180
 cggaagctct cgagaaattc aaatggcat aacttttaac tcggagggtc gattgagagc 240
 cataatatat cgagacgtc gaaattgaac aatggaagct cttgagcaat tccaatggtc 300
 ataactntta actcggaggt ccgattcagg cgcataatat ctcgagacgt tcgaaattga 360
 acaatggaag ctcttgagca attcaaatgg tcataacttt tcaactc 406

<210> 12554
 <211> 315
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12554

ctaccttcaa tgggtgcaatc atgatgaactn tgatgaagtc ccattgggtgt agtgggtgtct 60
 atatattctg aacaaaaactc aatagcttcc tcagcaacgt atctttcaac aatgctagcc 120
 tcttgtcgat atatcaattt tttgtatata ctttcaagac cttcatgtaa cgttcaactg 180
 gatacatcaa gcgtaaaaaac acaggcccac acaaccgaat ctcacgtaca agatgaacaa 240
 ttaagtgaac catgatgtca aaaaacgatg gaggaaaata catttctaata tcacacagga 300
 taatggctgc ctcat 315

<210> 12555
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12555

agcttaagat atctctntat ggacttaaac attctccgat gcaatgggtat ggtagactta 60
 gaaacttcct tcttgaacaa aaatttgaga gaggaaaagt tgataaaaca catttcatta 120
 aaaagttctc tcataacatt ntactcatgt aagtttatat ggatgacatc atttttgggtt 180
 ctactaatcg atctctttgt gaagattttg tacaacaagat gcaggaggag tttgaaatgc 240
 caataatggg ggggggggatt aaattacttt cttggtctct atgtgaagaa aattgaccat 300
 ggaacatttc tctatcaaac atagtattgc aaagaacttc tcaagaagnt taagatggac 360
 aaaagcaagg aggatgaaac tcctatggct actaattgct accttagtgc agatgaaaat 420
 g 421

<210> 12556
 <211> 317
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12556

atggtcataa cttttcacgt gaatgtcctt ttcgggcgca taanatgncg agaagcgcg 60
aattgaacaa cagaagctct tgagaaattc atatgggcat aagctttcac acggatgtcc 120
gactcaggt tataatatat cgacacgctc gaaattgaac atccgaatct ctcgcgaaat 180
ttatatggtc ataacttttc acactgatgt ccaattcgcg cgcataatat gtcgagaggc 240
tcgagattga acaacggaag ctctcgagaa attcacatgg tcataacttt tcacatggat 300
gttccaatcg ggcgcat 317

<210> 12557
<211> 297
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 12557

agttggaagc catctttctca atcaaattct ttatccttag cagcagagac atatcaccaa 60
gggctccacc actggcgagc tcaatcatac tcctctccat gttgctaagt cctcataga 120
aatattgaag aaggagttgc tcataaatct ggtggtgagg gcaacttgca cacaatttct 180
tgaatctttc ccattactca tgcaagctct ctccactaag ttgtctgatg cctgaaatgt 240
ctnttctgat ggcagtggtc cttagtagcaa ggaagaattt ctccaagaac accctct 297

<210> 12558
<211> 115
<212> DNA
<213> Glycine max
<400> 12558

tagacataac tattcacacg gatgtccgat tcgggcgcat aatatgtcga gaggtcga 60
attgaacaac ggatgtcttt gataaattca actgtataa cttttcacac ggata 115

<210> 12559
<211> 358
<212> DNA
<213> Glycine max
<400> 12559

tgtagggtta aagtctcacg attgtcacgt gttgatgcat caattgttag tcgtggctat 60
acgagacctc ttgccaacaa aagtcaggtt agccataact cgctgtgct tttttctcca 120

tgccatatgt agcaaaagtca ttgatcctgt caagtttgat gagctggaaa ataaggccgc 180
aattatactg tgccagttgg agatgtattt tccccctgcc ttcccttgaca tcatcattca 240
cttgattgtg catctcatca gagaaatcaa atgttggtgt cctgtttatt tgtgatatat 300
gtactcggta gagcgatata tgaagatctt aaaaagggtat acgaagaatc tatatagt 358

<210> 12560
<211> 361
<212> DNA
<213> Glycine max

<400> 12560
tcacttaagg taagggggat ttttccactt cttgatcctt aacctttttg tctagcaaaa 60
tttatgtata aaacaagttt aaggtctttt gtaggattaa agttactttg gatatgttgg 120
atcaagtggc ctctgaataa ttaagaaggg gggttgaatt aattattact gaacctttac 180
taattaaaaa tgtacccttc ttaggctttt actataatgt taagaaagta aataacagaa 240
atggaaactt aacaaaaagt aaaagcaata attaaagtgc acaacggaaa ataaagagtg 300
tagggaagaa gaagacaaac acaagagttt tatactggtt cggaacaac ccgtgcctac 360
a 361

<210> 12561
<211> 372
<212> DNA
<213> Glycine max

<400> 12561
agcttctggt gggacatctt gacttgcttt ccaatctgac attcaccaca gattctgcct 60
tcttctattt tcagattggg aatgcctcta acagcacctt tgtcaatgat tttcttcatg 120
cctcttaagt gcagatgtcc aaatctttga tgccatattt tgacttcac tctcttggag 180
gatagacatg tggaggagta actggtttct tgagggtgtc ataggtaaca gttgtccttt 240
gatctgtgc ccttcattag aacttcactc ttctcatttg tcaccaagca ttctgacttt 300
gtgaagttta cattgaatcc ttcacacac aactgactga tgctgatcaa gtttgcagtc 360
agttccttca cc 372

<210> 12562
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 12562

agcttgctaa cccatggaat ctccataat ctcccacact ttttgggggtg ggccattctt 60
 ggatggcctt gattttctca ggggtccactt ggaccccat tctaccaact acaaacccta 120
 agaaaactat attatctaca caaaaagtac atttctctat atttacatag aggggtgtttt 180
 tcttaaggac tgaaagaact tgcctgagat gtcctaagtg atcatctagg ctctactgt 240
 acactaaaa atcatcaaaa taaacaacta caaatctacc tatgaaatcc cttagacat 300
 gatgcataag ccttataaag gtgcttggtg cattagttag cccaaaaggc atcactagcc 360
 attcatacaa accaaaacttg gtcttgaaag g 391

<210> 12563
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 12563

agcttctaga tgagttatgt ttgttattcg gacatcctgt gaaaagtgat gaccatttga 60
 atttctcgag tgcttccgtt gtttaatttc aagcgtctcg atatttatgt cctcaaatca 120
 aacatcgagg cgaaatgtta tgaccattcg aatttgtcga gagcttccgt ttttcaattt 180
 cgagcgtcta gatgagttat gtcaccgaat cagacatctg agtgaaacgt tatgaccatt 240
 cgaatgtgtc gagagcttcc gttgtcfaat tttcagcgtt tagatgagtt atgtcaccga 300
 atcggacatc tcggtaaaaa gttatgacca ttcggctttg tcgagagctt cegttgtcfa 360
 ttttcgaccg tcttgatata ttat 384

<210> 12564
 <211> 366
 <212> DNA
 <213> Glycine max

<400> 12564

ttcagtaact ttcttatttt atgtctttta tgcacgatac cacattgcct gatcaggctt 60
 tatgaaggtt atatgtcctc taagactgaa aaaagcaggc tgcccaaagc aacagaagag 120

acaagttaga ctagaaactc ggatgaaaat ccattaaaat ttgcaggagt tgcaataaca 180
 tgtctaata ga atgtttatat caaacaacca catggaactg tattagcaat gtccaacatt 240
 caggaaaatt aataaccaa tacctttcca tctcccaatg atgggtttga gattatgtca 300
 gaaagatgaa tacgatcagt gtacactgat ctaatcccat tgtagatat tggacttgaa 360
 ccagag 366

<210> 12565
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 12565
 agcttcagcc tttgatgatg tattaccgaa aagagaaaga gagggttgat gagattcgaa 60
 ggctcaagaa gaaaagagaa gagcttcttt ttgctttaca agaggctgag agaagatatg 120
 atctggctag agctgcagac ctgcgatatg gagcaattca agaggtgga actgcaatac 180
 aacaacttga agggagcact gaagagaatc tgatgttgac tgaaactgtt ggaccggagc 240
 aaatagctga gggtgtgagc cgctggaccg gtataccagt tacaaggctt ggccaaaatg 300
 aaaaagaaag attgattgga cttggtgaca gattgcacag cagagttgta ggacaagacc 360
 aagctggtaa tgctgttgct g 381

<210> 12566
 <211> 352
 <212> DNA
 <213> Glycine max

<400> 12566
 agcttctcga tatatttttt tgtctgaatc agacatctga gtgaaattta tgaccatttg 60
 aatttctcga gagcaattgt tgcccaattt cgtgcgtctg gatataattat tccctgaat 120
 cggacatctg agtgaaaagt tatgaccatt tgaatttttc gagagcttcc gtttatcaat 180
 ttcgagcatc tatatatatt atttcccgga atctgacatt cgtgtgaaaa gttatgacca 240
 tttaaatttc ttgagagctt ccattgttca atgtcaagcg ttctgatatg ttatgcgcct 300
 aaatcggaca tccgagtga aagtcaggac aatttgaatt tctagagagc tt 352

<210> 12567
 <211> 382
 <212> DNA
 <213> Glycine max

<400> 12567

agcttctggt acacttgagt atcagaccaa acaaaataac ctcttgagcg caaaactcga 60
 ttcaattcca aaagcaacat gccacctgga aaagagtttc acattttctaa gtaactatgg 120
 ttaacacaaa gctaagccat tatgaagatt caatatgaat tgaaaaatcc aaattcgaga 180
 gaagtgttag taagaccaac catctagatg ccaaggtact ctacaacgtg cacaatgtac 240
 aagatcaaag acactgctgg gaaatggtag cctttgagaa cccatgacag cagatatggc 300
 aggaatccct ctttcaagag caaattgcac ttgtgcttca tgttcattct taggtgcaaa 360
 agacattgca ataacatctc tt 382

<210> 12568
 <211> 372
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12568

tatagtcatt acttggtgag aaccataatc taaagnngtt tgttcctttg atatatgtaa 60
 taatttgttt tgtggccttg agatgagtag tgggtggagt ctccatgtat tgactgatga 120
 gtcgagtacc atatagaatg tctggtcttg tggacgtcaa atatcacaaa ctaccaccca 180
 aactcttgaa atttgtagca cccatctttt ttgcttcgtc aaactttgat aacttcattt 240
 tgcactccac cggatattcca attggcttgc atagttttgc tatgaaatga agattcaatc 300
 ttccttttgc tttacctcaa taccaagata gtatgacatt agtccaatat cggtcattct 360
 gaactccttg ac 372

<210> 12569
 <211> 377
 <212> DNA
 <213> Glycine max

<400> 12569

tcaagcttgc tcacccatgg aagctcctaa tatcttccac actttttggg gtggggccatt 60

cttggatggc cttgattttc tcatgggtcca cttggacccc atttctacca actacaaaac 120
 ctaagaaaaac tatattatct acacaaaagg tacactttctc tatatttgca tagagggtgt 180
 ttttctaag gactgaaaga acttgtctga catgtcctaa gtgatcatct aggtcctac 240
 tatacactaa aatattcatca aaataaacia ctacaaatct acctatgaaa tcccttaaga 300
 catgatgcat aagcctcata aaagtgttg gtgcatcact gagcccaaaa ggcacacta 360
 gccattcata caaacca 377

<210> 12570
 <211> 357
 <212> DNA
 <213> Glycine max

<400> 12570
 tgctcaagg aggtccagga aggacaattt tgccgaatta tactagtctc gctccggagt 60
 atgacaatca ccgcttttagg agcgctgtac accagcagcg cttcgaggcc atcaagggat 120
 ggtcgtttct ccgggagcga cgcgctccagc tcagggacga cgagtatact gatttccagg 180
 aggaaatagt gaaattctga tacagaggtc agatgtcgta ccagatgtca cgacatcacg 240
 cttcagaaca tggagattat atttgactgt atgaacatat taaacaagta aataacacaa 300
 gagaattgtt aaccagttc ggtgcaacgt cacctacatc tgggggctac caagcca 357

<210> 12571
 <211> 284
 <212> DNA
 <213> Glycine max

<400> 12571
 agctttcgtg aaattgttat gtcataaccc ttcacacgga tgtgcgattt aggcgcataa 60
 tatatcgaga cgctcgaaat tgaacagcgg aagctctcga gaaattaaaa tggtcataag 120
 ttatcacacg gaggtccgat acaggaacat cacatatcga gatgctcgaa attgaacaac 180
 cgaagcttcc gtgaaattga aatggtcata acccttcaca cggatgtccg attcaggcgc 240
 ataatatatt atagaactct tgaactgaac cgaggacttt tttt 284

<210> 12572
 <211> 350
 <212> DNA

<213> Glycine max

<400> 12572

tatgctgcat acatctacaa ttgaccactt taacctcagc agcaaaatca gccacaacaa 60
aataattatg acctctccag caacaggtac aatcctaggt ggaggaatca tcccaacctt 120
agatggtcga atccttcaca acagtagtag caacaacaac agccttattt tcaaaatgct 180
gttgccgaa gcaaaccata cgttcctcca ccaatccagc agcaacaata gtaacaaccc 240
cagaacaac aaacagttga ggctcctcg ccaacctccc ttgaagaact tgtgagycaa 300
atgactatgc aaaacatgca gtttcaacaa gagaccagag cctccattca 350

<210> 12573

<211> 346

<212> DNA

<213> Glycine max

<400> 12573

tgcactgccc ttagtgaca atcttctta aaacgttgaa gccaccattg atgtccctta 60
tgatgtcgtt cagtatctca aaaaagccta cgatgatttg gaagaacct tgacctgttt 120
tctcaaatct tccaaagtgt attggcattt ctatgacca tatatgttac agttacaaa 180
aagggtcaaa gagaaaacca aatggtgtgg aatagtaagc cccggttggg caccatagtt 240
gaaggatttg agccacaagg cagttggtgg ggttttgact cactctggtt ggacctctgt 300
ggtggaggtt gtttagaatg aaaaacctct attttgtaa tgtttc 346

<210> 12574

<211> 387

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12574

agcttgaaga ctacagngag taaaattctc atcttttggg acaataaaat tgttatcagt 60
ctttcaaaaa atccgaaatt gcattctgga gaaaaatata tagaaattaa acatcattgt 120
ataagaaatc atgttcaaaa tgggagagtg gacttgaggt ttgtgccac tgattatcag 180
ctttttgaca tctttacaaa acgattaact gaggaaggt tgattttggt aagaagtcaa 240
cttggaatga tctttattaa tgattattt aatctctata tgtcatccat tgttgcattc 300

aaggatatat cgtccactag acttaaacac acactcataa cattcaataa atggacaaca 360
tatcatgcat taattntttt tttttat 387

<210> 12575
<211> 373
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12575

agcttgtaag ccttggatct tcttcatcaa tggagtcctt tgettccttga agatgaatgt 60
cagcataatg aagaaggaag aaagatgatt ggagatgcct cttcaaggag aagatgagtc 120
aaaaagaaac tcaccacat agaaagccat ggataagagt ttgaaggtag gagaagatgt 180
gtggaggagg agggagagaa ggagcatgaa attttgtgcc tcaaatagaga tctgaacttt 240
gaagtgtaat tctaaaatga tcaaatttga acaaatgcac acacatggcc tttatttata 300
gcttaagtgt cacacaaaat tggagggaaa tttgaatttc tattcaaatt tcacttgaat 360
ntgaaattga att 373

<210> 12576
<211> 384
<212> DNA
<213> Glycine max

<400> 12576

agcttagatc aaaagataat tactttgaaa ttattatata tacagcaaca gctaccaggt 60
ctcaacattg catggcacca ggcaggttca gcatacaaaa tatgctgcaa acaccctgat 120
ctccacatga attgaatgtt agaacacata tagttgtgta ggagtccagg gaactaagca 180
attctattct agttatctct atccttgtgt tgttcattat cttcaaacaa gtccctctggg 240
gggtcgtaga tgatcatacc tgggaaaatc tctaagaagt cgctcgtctt tattttctct 300
cttaattctg gataggggaat gagccctttt aatatcacgc gaaaaggcaa tgaaagggga 360
ggctcaagag actgtctcat ttct 384

<210> 12577
<211> 374
<212> DNA

<213> Glycine max

<400> 12577

gaatcctcaa gcttgccatc gattacacat atactataat cttttaccag atcagatttt 60
cagaaaatat tctcaacagt cacatctttt tatttggttc ttgaatggct atcaaaggcc 120
tatatatatg tgacttgaga cacgaatttg ctaagagttt ttcagaacaa aaaggcttta 180
tctctttaa aagcaaaate gttttatcct cttaaaaatt ccttggccaa aacacttgtg 240
attcaataag gaattatttg agtgcctcaa ttgttcaatc tatctctttc aagagagatt 300
acttcttctc tctctcttta ttctgaaaaa ggattaagag accgaggggt tcttggttga 360
aagaaatctg aaca 374

<210> 12578

<211> 356

<212> DNA

<213> Glycine max

<400> 12578

agggtcfaat tttcttaate agtttgata atagcttcac ctttttgga tgttttgga 60
ggaacttgga catggatgct agcctgccat tcaacttata aacttcttgg atgtaatttg 120
ggttgcgcat ctctagtatg gcagtgcatt tgctgggggt ggcttcaatc ccccgatgtg 180
tgatcatgaa gtcagggaac ttgtctttgc ctaccccaaa agtacatttc cctgggttga 240
agcacatgtc atatttggtg agttctccaa agacttcttc caggaccgcc acatggttgg 300
gtatgctctg agacttgaca accaagtcac acacatatat cttgacgtta tgtcca 356

<210> 12579

<211> 359

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12579

tgcattttct toccatgggt gatataaatt ctatgatggn atcaaagctc ttgctttgaa 60
gagccctgct gcgctactta tattcttctc ctogattatc atatccttca ttcttacatc 120
atgagtgaac aacaacaaga tcaatcactt aatgtacaca gtccttatta cctttatctg 180
ggagaaaatc cagcgatagc tttggtttct tcggttcttg attcatccaa ttataattca 240

tggagtcgat ctatgcttat tgcattaagt gcaaagaaca aatctgagtt tgtcgatggt 300

tttattcaaa gacctgcac agatcatgca cttcatgcag cttggaagag gtgcaataa 359

<210> 12580
<211> 355
<212> DNA
<213> Glycine max

<400> 12580

tcaacattca atttcgagcg tctcgattat ttctggactc aatcagacat ccgagtaaaa 60

agttattgtc gtttgagttg gctcagaggt tcaacattca atttcgagcg tcccgatata 120

ttacggcact gaatcggaca tccgagtaaa aagttattgt cgtttgaatt ggctcagagc 180

ttcaacattc aatttcgagc gtatccatat attacgggac tcaatcagac atccgagtaa 240

aaagttattg tcgtttgaat tggtcacag gttcaacatt caatttcgag cgtctcgata 300

tattacggga ctcaatcgga catccgagta aaaagttatt gtcgtttgaa ttggc 355

<210> 12581
<211> 378
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12581

agctttgagc caattctaac gataataact ttttactcgg atgtccgatt gagtctcgta 60

atatatcgac acgctcgaaa ttgaatgttg aagctctagg cctattcaaa caacaataac 120

gttttactcg gatgtccgat tcagtgacgt aatatatcgg gacgctcgaa attgaatgtt 180

gaacctctga gccaaactcaa acgacaataa ctttttactc ggatgtctga ttgagtcccg 240

tattatatcg agacggtcaa agttgaatgt tgaagcttta agccaattca tacgacaata 300

actttttact cggatgtctg attgagtctc gtaatataac gaaacgctcg aaatngaattg 360

ttgaagcttt gagccaat 378

<210> 12582
<211> 352
<212> DNA
<213> Glycine max

<400> 12582

tttcaactcgg agatctgatt caggcgcata atatatcgag acgcttgaaa atgaacaacg 60

gaagctctcg agaaattcca atggtcatta cctttaactc ggaggctctga tttaggcgca 120

taatatatca agacgctcga aattgaacaa cggaagctct ctgaaattc aaatggctcat 180

aacttttcac tccgagggtc gattcaagtg catgatatat ccagacgctc gaaattgaac 240

aatagaagct ctcgagaaa tcaaatggcc ataaccttta actcggaggt ccgatttagg 300

cgcataatat atcgagacgc tcgaaattta acaatggaag ctcttgggca at 352

<210> 12583

<211> 355

<212> DNA

<213> Glycine max

<400> 12583

tccttaagaa gattcctatt gaagctagtt cttagctaca catacctctc taatagctaa 60

gtcacctcc ttgagatgag aagctagagc ttagctacac accccctata atagctaaagc 120

tcacccccat gacaaaaaac atgaaaataa aaaaaaagtc cttattacaa agacaactct 180

aatgccccg aaatacaagg ctaaaacct atactactag aatggccaaa atacaaggcc 240

tagacgaagg aaaacctat tctaatttt acaaagataa gcgggctcat acttagccca 300

tgggctcgaa atctacccta aggctcatga gaaccttagg gccttttctt ggatc 355

<210> 12584

<211> 361

<212> DNA

<213> Glycine max

<400> 12584

tcctcatca tgaaattttt ctttcttgta acatcataag tgagaacacc attccacaac 60

tttttcagat catcaatcaa aggttgtaaa taaacatcaa taccaattgt tggattaaat 120

gggttaggta cgacacaact cacaacata taagttttag tcatacatat tcttagagga 180

agattgtatg gggtacaat gattggccaa taagaataag gtgaagacga tgcttaata 240

tatgggttaa atacatttgt gcataaacca agtcgcacat tttgcgtatc aatagaaaaa 300

tctggatgta cccgttcaaa gtgcttcag acttcatagt tagagggatg acttaacatg 360

<210> 12585
<211> 378
<212> DNA
<213> Glycine max

<400> 12585

agcttctcga tatgttatgt gtctgaatcg gacatgcgag tgaaaaatta tgaccatttt 60
aatttccga gagcttccgt tgttcaattt etagcatctc gatacgctat gtgcctgaat 120
cggacatgcg agtgaaaaact tatgaccatt tgaattttctc gagagcttcc gttgttaaat 180
ttctagcgtc tcgatacgct atgcgcctac atcgaacatg cgagtgaataa gtttaatacca 240
ttttaatttc tcgagagatt ccgttagtca atttcgagcg tctcgatatg ttatgcgcct 300
gaatcggaca tgcgcataaa aagttagtac tattttaatt tctcgggagc atctgttggt 360
caatttctag cggttcga 378

<210> 12586
<211> 386
<212> DNA
<213> Glycine max

<400> 12586

agcttcaaga attatggcct tattttacta cttgtctccc gagggaaatt ctataaatag 60
acctctcacc tttagtggag tgggttacca ctactggaaa acccgcatgc aaatctttat 120
agaggcaata aatttaatat ctgggaagcc atagaacaag gaccttatgt tccctctata 180
atagccggaa gtgcaacaat agaaaaacct agagcagatt ggactgagga agaaagaaga 240
ttagcacaat ataatttaaa ggccaaaaat attattacat ctgccttacg aatagatgaa 300
tactttaggg tttcaaattg taaaagtgtc aaggatatgt gggatactct acaagtaaca 360
catgaaggca caacatatgt taaaag 386

<210> 12587
<211> 384
<212> DNA
<213> Glycine max

<400> 12587

agcttataga atagtgtacc aaactatcgc tgctccggcc aagctatctt ggaaaaagtg 60
tattaatagc ttctcatct tagagtgcgc gcccatcttg tgacaataca tcttgagatg 120
gtttttggga caaacggtec ctttatactt gtggaagtct ggcaccttgg attttggggg 180
aataacaaca tccggtacta agcaaaagtc catcatgtcc gtgaacggat agtcaccaaaa 240
gccttcaaca gccctcaatc tcttctcgag gagatcgagt ttcttctctt cttcgccgc 300
tggggggtgt ccttcgcgcg acaaaaatat tggctgtgct gtgaggttgt gttgaggcaa 360
tgtgtcgagt gtccgcccct ctac 384

<210> 12588
<211> 352
<212> DNA
<213> Glycine max

<400> 12588
tatttatttg ttgctttagt tatatgttga ttcttaactc acaaggcttt catttcttca 60
tgtgtctcttg aaactgagtt ctatttatgg tggtaatctt aacaggcgac aatcaggcag 120
ccagtattca agaacatgat gaaagccctg tattttcagt ttactgttgg agttctgcc 180
ttatatctgg taaccttttg aggatactgg gcttatggat cttcaacagc tacctatttg 240
aggagtgatg tcgatggtec agtttgggct aaggctatgg ccaataatgc agcctttctt 300
caatcagaca ttgcattgca tgtagtaact tctaaacttc aatttagagc ta 352

<210> 12589
<211> 252
<212> DNA
<213> Glycine max

<400> 12589
taacgataac tcgctgtgc tttttcttcc atgctatatg tagcaaagtc attgatccag 60
tcatgtttga tgagttggaa aatgaggctg taattatact gtgctagttg gagatgtatt 120
ttccccctgc tttctttgac atcataatc acttgattgt gcatctggtc agagaaatca 180
aatgttgtgg tctgttttat ctacgatgga tgtacccggg tgagcgatac atgaagatat 240
taaaagggtg ta 252

<210> 12590

<211> 381
 <212> DNA
 <213> Glycine max

<400> 12590

```

agcttggtacc caccagtact atgatagccc agcataatca tttgttcacc ctttttgtcc 60
agttttcttc ttaattgatt tggaacatgc ttgaagcaca agcatccaaa cacccttagg 120
tgcttgagac aaggcttact tccactccaa gtttcttcag gtgtcacatt ctctagctcc 180
tttgttgaac atctgttgag cagataggct gctgttgaca ctgcctcacc ccaaaactcc 240
tttgccaagt gaaaattcct tagcatacac ctggtcattg tgactatggt tctattgagt 300
atctcaaata caccattgtg gtgtggtgca tatggagggtg tgatcttatg aatattaccc 360
tcaccccatc agaatttctt g 381
  
```

<210> 12591
 <211> 388
 <212> DNA
 <213> Glycine max

<400> 12591

```

agcttttgagc ttacccttat tcactcttgc taagttgaac acaacatgac tgaagatggt 60
tgttggacaa gtggtctcaa taacttaaga ggggggtgaa ttaagtttca aaattttccc 120
actaacaat ttaaccccc ttttaaatga tatatgatag gtcagaatg caaagaaga 180
agaagtaatc aatttaataa tggtctttta actgtgcaag gcaaagtaaa ctgcaataaa 240
ataaccgaga taagggaaga gagaatgca aactcaattt atactgggtc gaccacttcc 300
catgcttaca tcagttctc aagcaactca cttacgattt tcactatct ctataaatcc 360
tttacagtct ttgaacacac tgaagtgt 388
  
```

<210> 12592
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12592

```

gatcctntna gtcacctgcc gcatgcaagc tttggaagca atcttttatt gttgcttccc 60
tcacatttcc tgtcaagcct tcaacaacca agtcaaaca tagagggcca aaggatccct 120
  
```


ttgtctcaaa cctctttgag gcttaaatc agaggttgag cttccattca ctagaataga 180
 tatagaggct gatgtgaggg accccttaat ccatccaatc catctgtcat ggaacctcat 240
 tcttctcatc atatgaaaaa ggaattgcc aagacctaaa tcatatgctt ttctgaaatc 300
 cactttaaac accaagcagg acctcttaga cctcctagcc tcttcaagta cctcattagc 360
 aacaaaaaca ccatggagca actgtctatc cttcacaaag gttgtctgcc ttt 413

<210> 12593
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 12593
 agctttagg gttaaattct tatgattgtc acgtgtcat gcaacaattg ttggctgtgg 60
 ctatatgaga catcttgcca aacaaagtca ggttagcgat aactcgcta tgctttttct 120
 tccatgctat atgtagaaag tcattgatcc tgtcaagttt gatgagttgg aaaatgaggc 180
 cgcaattata ctgtgccaga tggagatgta ttttccccct gctttctttg acatcatgat 240
 tcacttgatt gtgcattctgg tcaaagaagt caaatgttgt ggtcctgttt atctacggtg 300
 gatgtaccgc attgagcgat acatgaagat cttaaaaggg tatacaaaga atctatatcg 360
 tccagaagca tctattgtt 379

<210> 12594
 <211> 350
 <212> DNA
 <213> Glycine max

<400> 12594
 ttgacaagac attacacact gctgtcttct acaacaagat aaaataggga aatctactct 60
 aaagatacat ctaataatac ccataattat aacactcccc ctcaagctgg agcatataaa 120
 ttatatgcac caagcttgga acatataaac tgaattctag gcccccttaa ggatttagtc 180
 aaaatatctg ctggctgac attggaatta atgaattcag tgacaatctc tttagacagt 240
 agcttctccc gaataaagtg acagtcaatc tctgtgtgct tggttctctc atggaagact 300
 ggatttgaag caatatgaag agcagcctga ttatcacaat acagcttcat 350

<210> 12595
 <211> 361
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12595

tragtgcctt taattntgaa gcaatatttg acattccttg aaattctgat actggggaca 60
 gatgtcgtac cggatgtcac gacatcacgc ttcaaaacat gcagattgta tttgactgta 120
 tgaacagatt aaacaagtaa ataacacacg agaattgtta acccagttcg gtgcaacgtc 180
 acctacatct gggggctacc aagccaggga ggaaatccac taaaatagtg ttagttcgaa 240
 gatctaacag ccactgttta caaccttctc acctaacacac taccctgtgca acctctacct 300
 aagagccact cttagatatg agaaccctc tcactccctc tcaaacactc tcccggtgtt 360
 a 361

<210> 12596
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 12596

agcttttgcc aaacccacgc agcttttgtt tccttagaga cttgccttag caccttgtct 60
 ttgagactga ggataattac actgtgtgcc ttttgcagta gtgctttctt atccccatca 120
 gccatcatct tttcaagttt ggcttctcca tcaagtgtct ccaccaggcc ctgctgaaca 180
 agaagagctc tcatcttcaa tcgccataac ccaaaatcat tttgccctgt gaatttttca 240
 acctcactact tgggcagctc cattttttga atcgaaactca aaaatcgctc cacgctcacc 300
 gcaccaatct gttgtgcca gatcagattt tagttcaca aagaatgagt ttcttgatg 360
 aacaagaata agcaaaatgc agaaaagaa 389

<210> 12597
 <211> 357
 <212> DNA
 <213> Glycine max

<400> 12597

tactgaagct aatagactgt catctcatt aatgaatata ctttcatcca attcactctt 60

gttggaatc atgtaatcat aatctttttc taacatactt agactagaag gtagagacga 120
 ttcttccatc aggtctttta aatagggtcaa accatctaca aacaaaggga taataaacat 130
 cagtttagaga gatcaagtat tcttgatgca taaataataa taacacaatg aaaatgaacc 240
 tttatcgata ttctctaggt ttctcggttc acattcagat gccaaagcaag gctgctttct 300
 caatatatct gctattacat tattggcttt ctccatgggt ttcttcaact catcttc 357

<210> 12598
 <211> 357
 <212> DNA
 <213> Glycine max

<400> 12598

tcacaagagt ttatatgggt ggaaacattt cccgatgcag tggtaacaaga agtttaataga 60
 ttttatgagc aactcaggat tcaacagatg tgacatggac cattactgct atgttaagaa 120
 anatactaag agttatgtta tcttctgctg gtatgttgat gacatgttga ttgcaggatc 180
 tagtatggca gaaattaata tgttgaagta gcagttggca gaaaactttg aaatgaagga 240
 tcttggtcca gctaaacaaa tcttaggtat gagaattctt agaaacagat cagaaggaat 300
 tttgaagctg tctcaggaga aatatatact caagttgctt gacaggtttt accttga 357

<210> 12599
 <211> 348
 <212> DNA
 <213> Glycine max

<400> 12599

tttaatggaa gtcttgatct tgaaactgtt cggacttcgt taactggtga gcaggctctt 60
 cagcgggttg aacaccttaa tattgtattt ggaaagacct agaagaagga taaaagtaag 120
 agttgcatat ggaagaagag gtccattttc ttgatcttg cgtactgggt tgatctaaat 180
 gtttagacatt gtattgatgt tatgcatgta gagaaaaatg tatgtgacag tgcattggg 240
 acactcctta atattcaggg caagacgaaa gatggtctaa ataccgtca agatctatct 300
 gacatgggta tacgatcgca gttgcatcca aggtctgatg gtaaaaaa 348

<210> 12600
 <211> 410
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12600

ttagaaaatc cctcaatgga atttctataa tagccagcca acctcaagat acgttgaact 60
tctgttggag ttgtcgggtg ttgccactcc ataaccgact ccactttaat cggatccacc 120
gcaaccccat ctttagaaat cacatgttcc aagaactgca ctttttctaa ccaaaattca 180
cattttgaca agttggtgaa caatttccta tccctcagga tatgcaacac aattctcaag 240
tccttctcat gctcctgctt attcctctga tacactagga tatcatcaat gaacacaacc 300
atgaactgat ctaagtaatc atgggatata cggttcatat agtccatgaa gatagccgga 360
gcattagtca ctccatattg catgactana tactcataat gcccataccg 410

<210> 12601

<211> 313

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12601

ttcaaaatct tttgaaattg aatgtgatgc ttcaacatgt gggattggag ctgtattggt 60
acaagaaggt catccaattg gcttatttag tgaanaatta agtggtccta cccttaacta 120
ttctacttat gataaggagt tgtatgcctt agttagagcg ttgaacacat ggcaacacta 180
tccttatccc aaggagcttg tgatccatag tgaccatgag tccctaanat acttacaagg 240
acaaggtaag ctaaataaaa ggcatgccaa atgggtggaa tttctcgagc aatntcctta 300
tgttattaaa cat 313

<210> 12602

<211> 381

<212> DNA

<213> Glycine max

<400> 12602

tgtcagtcctt gttgttcata cttcacttag agcttcagct attgaagatt ggtacctaaa 60
tagcggctgt tccatacaca tgacaggagt taaagaattc ctggatgaaca ttgagccctg 120
ctccactagc tatgtgacat ttggagatgg ctctaaagga aagatcattg gaatgggaaa 180

gctagttcat gatggacttc ctagtctgaa caaagtactg ctggtgaagg gactgactgc 240
 aaacttgatc agcatcagtc agctgtgtga tgaaggattc aatgtaaact tcacaaagtc 300
 agaatgcttg gtgacatatg agaagagtga agttctaag aagggcagca gatcaaagga 360
 caactgggtac ctatggacac c 381

<210> 12603
 <211> 501
 <212> DNA
 <213> Glycine max

<400> 12603
 agcttgcaat ttaatgttcc tgtcacaccg aatatattat attgcatgta tgtataatga 60
 aacttttagag agaaagcagg gggatataaa atgaatatgc cactttatta taaagctttc 120
 tcataatgtc acaggcaaag attacttcag caattaacta agtcaaaaac tctttctttt 180
 ctgttttggg tgaagaagaa aaaagtcagt taatgataaa ataccatgct gcattatgat 240
 catcagagtc tggacacagc ggtggctcat tctttgaacg ttgctcgtaa cactcattag 300
 aagttggctt cttgatacag ctacacctac tccatttact tgatccttgc tgatecgacac 360
 aacttccac cacatggctt ttgtagtgtc ttcattggctg ccaataaatt cataacacat 420
 caggattaaa aacctacatt aaaagcacia gagtgccata tataagtcta gctataatta 480
 cccttctat ttaacatctt c 501

<210> 12604
 <211> 327
 <212> DNA
 <213> Glycine max

<400> 12604
 cctgtctcaa aagtctatgg agtatgtcc tctgccgacc accacacaga tcttttccct 60
 tctctgcaac aacctggagc aattgagcat cttgaagctc atgctgcaaa cattgaccac 120
 agacctctc tagctcagct tcagaataaa ccacggcaga gcaattatga cctctacagc 180
 aacagatgca agaccggatg gatgaatcac cctaattctc catggtctag cctcaacag 240
 caacaacagc agctgtctc ttcctttcag aatgatgctg gctaagcaa gccatacatt 300
 cctacaccaa tccgacaaca gcaacag 327

<210> 12605
 <211> 520
 <212> DNA
 <213> Glycine max

<400> 12605

```
gctttgaatg ctctattcaa tggagctgag aagattatct tattactgat caacacatgc 60
acagaggcca aagatgcatg ggagatcctg aaaaccactc atgaagggaac ctctatagtg 120
aagatgtcca gattgcaact attggctaca caattcgaaa atctgaagat gaacgaggaa 180
gaatgtattc atgacttcca catgaacatt ctcgaaattt ccaatgcttg cactgccttg 240
ggagagagga taacagatga aaagctggtg agaaagatcc tcaaatecct gcctaagaga 300
tttgacatga aagtcactgc aatagaggaa gccaagaca ttgcaacat gagagtggat 360
gaactcattg gtcccttccc aacctttgag ctaggactct tcgatggggc tgaagaagaag 420
agcaagaact tggcgcttct gtccaatgat gaaagagaag aagatgagtt tgacctggat 480
actgatgaaa ggctgaccaa ggcatttttg ctccctttgga 520
```

<210> 12606
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12606

```
tacttatntt acttagttgg aattgattct ttgtgatcct taatggtttg atgagtcttt 60
caatatagtt tgataataat gtgaaattgg tttatcattg tggatgggtat gattgatttt 120
tgtttgctac aacaaagaga taatgtagtt gacgagttga atactcgtag tatatatattg 180
tcgtttgcta caacaaagag ataattgtagc ctatggttca aatactcata gtatatattt 240
ctcgtttgct acaacaaata gataatgtag cctgagtcaa atactcacia tatattattt 300
gtttgctaca atgaatagat aatgtatcat atgagtcaaa tactcatagt atatatattn 360
tccatttgct gcaatgaaga gataacanag tctatgagtc caatactcat aatatatacc 420
atttnnttct ctacat 436
```

<210> 12607
 <211> 393

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12607

 tctatagaag gtccgttcct aatttctcta caatggcatc tcctctcaat gagctgggtga 60
 agaagaatat ggcattttacc tngngtgaaa aacaagagca agcctttgct nttctcaaag 120
 aaaagcttac taagggcacc tattctagct ctctctgaat ttctaaaact tttagagctag 180
 aatgtgatgc ctctgggtgtg ggagttggag ctgtattggt acaaggtggg caccctattg 240
 cttatttttag tgaaaaactt catagtgccca cctcaacta cccacctat gataaagagc 300
 tntatgcctt aataagagcc ctccaaaactt gngaacatta ccttgtttcc aaggaatntg 360
 tcattcatag tgatcatcaa tcaacttaagt aca 393

<210> 12608
 <211> 399
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12608

 accatttntc atagtaaaac actggtnatg tgtctactat tattgtgata atntctttct 60
 ccatcattgg aggtgccact tgagctgccca ggtctctcca cctttgggagc tattctttga 120
 aagattcatg cccctttttg cacatgttct gtagtgtgat cctatccgga gccatatcat 180
 aattgtactg atactgcta acgaaggcaa tcattatgtc ctccaagaa tggactcggg 240
 aaggttccaa gttgggtgtac caggtaacag ctaccccgat aagactntct tggaaaaaat 300
 gtatcagcag ttctcatctt tttagctatg ccncatctt ccgacaatac atcttttagat 360
 ggttcttggg gcaagtagtc ccattgactt gtcaagtct 399

<210> 12609
 <211> 459
 <212> DNA
 <213> Glycine max

 <400> 12609

 gagtctatgg tctatgttct tctacagatc tctgttcttc ttgcagcaa tctggagtca 60
 atgagcaact tgatgcttat gttgtaaaaca ttataatag atctcctcaa caacaaaacc 120

aacaacaaca gaataattat gatctttcaa gcaacagata caatccaggt tggaggaatc 180
atccaaattt gagatgggca agtcctccac aacaacatta gcctgtccct cctttccaga 240
atgctgctgg tccaaggaag ccatatgttc ctctccaat acagcagcaa caacaacaac 300
agtcataaca aagacaacaa gtaattgagg ctctctctca accttcttta gaagaagtag 360
tgaggcatat gaccatccag aatatgcaat ttcagcaaga gacaagagcc tccattcaga 420
gtctgaccaa tcagatgggg caaatggcta ctcagttga 459

<210> 12610
<211> 366
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 12610

ctctacaatg gcccacctc tcaatgagct ggtgaagaag aatgtggcat ttacttgnng 60
tgaaagacaa gagcaagcct tttctttgct caaagaanag cttactaagt cacttgttct 120
agctcttcca gacttttcta aaacttttga gctagaatgt gatgcctctg gagggggagt 180
tggagctgta ttgttacaag gtgggcacac tattgcttat tttagtga aaacttcatg 240
tgccacctc aactacccca cctatgataa agagctttat gccttaataa gagccctcca 300
aacttgggaa cattaccttg tttccaagga atttgcatt catagtgatc atgaatcgct 360
taagta 366

<210> 12611
<211> 459
<212> DNA
<213> Glycine max
<400> 12611

cctttctttt tcttggcatt ttcttcatgt tgatttagtc tcatgagttc cattttgtgt 60
tcttgaaact ttccaaacaa agttgcaaga gacatgtgca taagatctct tgattctata 120
attgtcatta cctttgggtg ccattccctg cttaaacatc ttataacttt gttaataaaa 180
tcttcattgg gaaatatctt tctaatgat gcaagatgat ttactatatg tgtgaatttc 240
ttttgcatat cctgtatagt ttcattttga ttcattctaa acaatttata ttcatgggtt 300

agggtattta ttctagatct ttttacatat gttgttcctt catgggttac ttgtaaggta 360
 tcccacattt cttttgcatt cttgcaggtt gatactctaa aatattcacc cctgcctaata 420
 gcagatgaat tatatttttg gctttaagtt atattgacc 459

<210> 12612
 <211> 212
 <212> DNA
 <213> Glycine max

<400> 12612
 aagagctttc gttgttcagt ttcgagcgtc tcgacataag atgcgcccga atcggacatc 60
 cgggtgaaga gatattgacga tattaatatc tccagagtat ccgattgtata acttccagcg 120
 tatcgatata atataagctt gaatcggacc tccgtgtgaa aagatatgac cattagaata 180
 tctcgagagc tttcgttgta gaatttccag cg 212

<210> 12613
 <211> 476
 <212> DNA
 <213> Glycine max

<400> 12613
 aaaacatctc tctgccgaag ttgctgccat gcattcagtg acagtcgtcc aaaaaatccc 60
 tgagatcacc gttcgtcgta gacacaatct gcatacgacg atcacgtcgt accgactatg 120
 gctatccgct tcatcaccta taatgaatat cttttacacc atcaactata taaattatta 180
 caaattgtcc aaactaacta ttcattagtg atgaattata tctaaaatgt ataaggcata 240
 atctacgcag agatgcattc tgacttttaa ttattgataa ttgctgtaac aagatatcca 300
 tatgcaagtt gaaactaaca atattaacaa ttatagattg aaagagataa acagcacggt 360
 aaagcagcat ctctatatct atctatatat atatatagat ggcattatgac ctctctatat 420
 atctatatat atataaatcc caagcgtgag ttcggagcct gacttaatat atggggg 476

<210> 12614
 <211> 454
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12614

cctctcaagc attngatcca tgaagggaat aggaaagtng gtatttgttg ttgccttgtt 60
 gaggaggcag taatcgatat acattctcca actggtcacg gtccttacag gaattagctc 120
 attcttgcga ttctttatca ctattattct acccttgttg gggactactt gcattgggat 180
 taccatgaa ctttcaaaaa tggcatatat cattccagct ccaagaagct tcagtacttc 240
 ttttcgaact tcctcttttc tcaccaggct gaggctcttt tgtgggtgtg ctactgggtt 300
 gaagtctcca tcattgtgca tgcaataaaa tggacatatt cctttgaggg tgaagaattg 360
 tcactctaag gcttgtctgt gcttcttttag taactccact agtctctttt cttctctttt 420
 gtgcaatgtg ctactaatga tggctaagtt ctca 454

<210> 12615
 <211> 441
 <212> DNA
 <213> Glycine max

<400> 12615
 agcttataat atattattac gctcgaaatt aaacatctta agctctcgag aaattcaaat 60
 ggtcataact tttcaccgag atgtccgatt atggcgaatc acatatctag acgctcaaaa 120
 ttgaacaacg gaagctcttg agaaattcta atggtcataa cttttaactc ggatgtccga 180
 ttcaggcgca tcacatattg aggcgctcga aaatgaacaa cggaagctct cgagaaattc 240
 aaatggtcat aacttttcac actgaggtcc gattcaggat tataatatat caagacgctc 300
 gaaattaaaa atcggaagct ctcgagaaat tcaattggtc atcacttttc acacggatgt 360
 ccgatttggg tgcataatat gtcgacacgc tcgaaattga acaacggaag ctctcgaaaa 420
 atcaaatggt cataactttt g 441

<210> 12616
 <211> 355
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12616

actcttagtg gtgactttgt gcgtatgttt atggaggagt ccgagtcaat ttctgattat 60
 tcttttcgag tattggccgt atgcaatcat cttataagat atggatgaaga tgttgatgac 120

gtgaaggcca ttgaataaat acttctaact ttatattcat agtttgactt cattgntacc 180
 aacattgaag agaacaagga ttttatgacc atgactattg agcaactcat gggcgcctta 240
 cgagcatact aagataaact aaagagaata atttaacaag atgaggctac ggagcaacta 300
 ctacaactca acgtaaagga agcagactta tcatattaca agagccaaag atgac 355

<210> 12617
 <211> 342
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12617

agattcaaaag gatgtaaaag attgtgatca atgtatttaa aatgcaagtt aagttcttgc 60
 ctttatagac ttttcaagtc tggcgaagag aaccattaga agagttataa cctttagaaa 120
 acctttggaa gagttacatc ttttgattct tattcanaac ttatcattgg taatcgatta 180
 ccaaatacatt gtaatcgatt agacaaagca tttttgtaaa aggatgtgac ttttcacatt 240
 tgaatttgaa tttcaacgtt caaacacact ggtaatcgat taccaatata ttgtaatcga 300
 ttacaccatt ttgaaattga atggaacatt gtaaattcag tt 342

<210> 12618
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12618

ctccccgtta atgggtgcct tntcgtcttt ggtattgtga tgtcatcagg attaacatga 60
 tccgtattac tcattcagat caacttgatc cgtatgagtc ataaggatct agttgatccg 120
 tatgacttat acggatcaag ttgatccgta tgacctttgt taattcaaaa aaataataaa 180
 taggtatttg tgtttagaaa atgttttaaa tacgagttaa ttcgtagttt tgtataaaaa 240
 acagattggt tgtgtttaaa aaaaatatgt atgatgcagc gtgtatgaaa tagtataaat 300
 ttaatagtaa tattgaattt tgagttgttg tggtatttat ctcatggaaa tagcatattt 360
 attaatatga gtcgtattat tatgaattgg tctaatatga tcatatatgc tttagaatat 420
 tataatgatg tttattca 438

<210> 12619
 <211> 507
 <212> DNA
 <213> Glycine max

<400> 12619

```

tttcttgaag agggcaggaa cccatgcaca aagatagaga tcttcacacc attaaaccca 60
ttgttcgata ttgggttgaa gaattggcta aactggcttc ttttgtactt ttcacaagta 120
ttggagatct ttctaccttt caagaggcta tgaatagcca ggagaaagac aaatggattg 180
gtgctatggt ggaggagata gagtctttac agaagaatca ggcattggcag ctagttaggc 240
ttctacagag caagagagtc atagggtgca aatgggtaga caagaagaaa cctctagtat 300
cagaaaaaga aaggaaaaag ttaaaggctt gcctagtagc aaagggatat gcatagtaga 360
agaggttgat tatgatgata ttttcctccc taatcatgag agacacttct atcatggcga 420
tgttagcctt tggagccagt catgacattc acttgagca tatggatgtg aagacaccct 480
ttttcaccat gatctagggg aacaaat 507

```

<210> 12620
 <211> 375
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12620

```

tcagcttcac atcagaccac ttccagggtg ctggaactac ttcatatgga cttgatggng 60
cctatgcaag ttgaaagcct tggaggaaaag aggtatgcct atgttggtgt ggatgatattc 120
tcagattta cctgngtcaa ctttatcaga gagaaatcag atacctttga agtattcaag 180
gagttgagtc taagacttca aagagaaaaa gactgtgtca tcaagagaat caggagtgcac 240
catggcagag agtntgaaaa cagcaagttt actgaatttt gcacatctga aggcattcact 300
catgagttct ctgcagccat tacaccacaa caaatggca tagttgaaag gaanaacagg 360
actttgcaag aagct 375

```

<210> 12621
 <211> 251
 <212> DNA
 <213> Glycine max

<400> 12621
 ttccacatat ttcttgtcg gatgggtca atttgtcgcc cttgttttat gaccagagga 60
 gggaggagat gaagttcccc tccgcggcga cgccccgcac cgtcatttcc cggctggagg 120
 aggtggccaa cyccgggaag ttctacgtca ggagtagcca gaccactgtg aggccttagg 180
 gtcaggaacg tgggaggaca gggaagctgg ccattgccgc cgatatctac tccgtgacgc 240
 cctcgtttat g 251

<210> 12622
 <211> 398
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12622
 tcaacattca atttcgagcg tctatatata ttacaggact caatcaaaca tccgagtaaa 60
 atgttactgt cycttaaatt tgcttagctc tccagcttta aatttcgagc gtctcgatat 120
 atgacgggac tatatcagac atccgagtaa aaagttattg tcatttgaat ttgcttagag 180
 attcaacatt catcttcgag tgtctcgta tattacggga ctcaattata cattcgagta 240
 aaaagttatt gtcttcgaa ttttctcaga gcttcaacaa tcaatttcga gcgtctcgat 300
 atattacggg actcaatcag gcatccgagt anataagtat tgctgttga attggctcag 360
 agcttcaaca ttcaatttcg agcgtctcgc tatattac 398

<210> 12623
 <211> 469
 <212> DNA
 <213> Glycine max

<400> 12623
 gctttgagca aattcaaaca acaataactt tttactcaga tgtctgattg cgtcccgtaa 60
 tatatcgaga cgctcgaaat tgaatgttga agctctgagc caattcacac gacaataact 120
 ttttactcgg atgattgatt gagtcccgta atataacaag acgctcaaaa ttgaatgttg 180
 aagctatgag ccaattcaaa tgacaataac ttttactcga gatgtctgat tgagtccgga 240
 aatatatcga gacgctcgaa attgaatgtt gaacctctga gcccaattcaa acgacaataa 300

ctttttactc ggatgtctga ttgagtcctc taatatatcg agacgctcga gattgaaatgt 360
 tgaagcttta tgcaaatcca aacgaccata actttttact cggatgtttg attgagtcctc 420
 ggtatatatc aagacgcttc gaaatgaatg ttgaacctat gagccatt 469

<210> 12624
 <211> 287
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12624

agatggacca ttccaagtgc tnganagaat caatgacaat gcttacaaaag ttgagctgcc 60
 cggtgagtat aatgttagtt ccaccttcaa tgtctctgat ttatctcttt ntgatgcaga 120
 tggagaatcc gatctgagga caaatccttc tcaagaggga gagaatgatg aggacatgac 180
 caagagcaag ggcaatgac cacttgaagg acttgaggga cctattgatg aggacatgcc 240
 aagagcaagg gcaaggatcc acttgaagga cttggaggac ctatgac 287

<210> 12625
 <211> 305
 <212> DNA
 <213> Glycine max

<400> 12625

caacatagtt gacacggaag ggatatctcc tctatatata agcataacat catatgcaaa 60
 agccaaatga gatagttgaa tacctgcaca gttgggattg aaattaaaat tggcatcacc 120
 cttgaggctg ctcatatctc tggaaaagtg ctccaaacag agcacaaca gattaaggga 180
 gagaggaaac ccttgtctaa gaccccgcta tcctttgaag tgaccataaa tgaatccatt 240
 gactgccaca ctataggaag tggaagaaac acattccatg atcaaagtac agaactgggc 300
 tggga 305

<210> 12626
 <211> 375
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12626

acgacaatta cttttaactt ggatgtttga ttgagttccg taatatatcg agacgctcga 60
tattgaatgt tgatggtcgt tgcaaatga gacgacaata actctttact ctgatgtctg 120
attgagtcgc gtaatatatc gagacgctcg aaattgaatc ttgatgtctc gagcaaatc 180
aaacgacaat aactttttac tcggatgtct gattgagtcc tgtcatatat cgagacgctc 240
gaaatntaat acgaaagcta tgagcatatt caaacgacaa taattattta ctcggatgtc 300
tgattgaate tcgtaataata tcgacacgct cgatattgaa tgttgatgct ctggtcgatn 360
tcaaacgaca ataata 375

<210> 12627
<211> 546
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 12627

ctgcaagctt atactttcaa tatgagttct cccatcgtgt ttgtgacaat ggtttgagag 60
ttagactaga atatgatatt ggtaaaatct ttcatttttt attgaagaag aaaatatatt 120
atatatgcat cgtagtactc ccgaaaaaga tgtaatttta ggacaagagt tagtcatatc 180
acaaaaatcc aaatttagac tatgacaatc acgtggagta taaaatgac gataattaaa 240
gtctaaaatt cttttttgca caccctgatg ttatcctttc atatttgatt cattatcata 300
accctgtcct cttaagtaat taatatcaag tgaaatatta tttatttcat tcataatagc 360
ttcaaaaagg ccttnttccg gttgtatcat ctacctttaa aaattataaa aaaaatttca 420
aaaacttgta tttgaattga agaaacatct acatatcata atacaaaagt catttgttct 480
cgatgactta tatcacgagg acaaccaagt atgattgaaa atattgtgca ttattgatat 540
ttttat 546

<210> 12628
<211> 426
<212> DNA
<213> Glycine max
<400> 12628

acttttcaga tgaaagtccc attcagccgc ataatatatc tagacgcttg aaattgaacg 60
ccggaagatg atgagaaatt taaatggatc taacttatca cgcggatgtc tgattcaggc 120

caataatata tcgagatgct cgaaattgaa caatggagct ctcgagaaat tcaaatggtc 180
 ataacttttc aattggatgt ccgaattagg cgcacacat atcgagactc tcgaaatcga 240
 acaacgaaag ctctcgagaa attcaaatgg gcataagttt tcacacggaa gttcgattca 300
 ggcgcataat atatctagac gttagatatt gatcaccgga agctcttgag aaattcaaat 360
 ggtcataact ttctactcgc atgttcgatt caggtgcata atatatcgag acgctctaaa 420
 ttgaac 426

<210> 12629
 <211> 293
 <212> DNA
 <213> Glycine max

<400> 12629
 cgcacacat atcgagacgc tctaaattga aaaccggaag ctctcgcaaa attcacatgg 60
 tcataagctg tcacacggaa gtctgattca tgcgcataat atatcgagac gcttgtaatt 120
 gaaaaaagaa tgcgctcgag aaagtcaaat ggtcgtaact tgtcaaacag atgtccgata 180
 cgtgcgcata atatttcgag acgctggaaa ttgaacatcg tatgctctcg agatagtcaa 240
 atggtcataa cttatcacac ggaagtccga ttctggcgca taacatatcg aga 293

<210> 12630
 <211> 428
 <212> DNA
 <213> Glycine max

<400> 12630
 tgctgcatgc tagctttgat gcagcatatg gagaggctaa tgatataacg ttatgatgag 60
 ctgcatgaca cgctcgctca atatggctaa tcgccatcct tatgaggaag aactgacgac 120
 aacacgtaat ggatcggttt cctagacaaa acctgattga tcgttttaaa cttctcattc 180
 ctccatttaa aggaagaat gatcctgaag cctacttgga gtgggagatt aaaatatagc 240
 atgttttctc atgtacgac tatgaggacg accaaagagt gaagcttgcc gccacggagg 300
 cttctacta tgctcttggt tgggtggaaca tgcttctaaa tgcgacatcc agaaacgacc 360
 agccactggg tgatacatgg accgagatga tatacatcat gatgaagcgg tatgtgccag 420
 ctacttac 428

<210> 12631
 <211> 460
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12631

```
atgtgttgtt tcttattgat tgatgtgtgt atgaagttca actagtagta ggtactttat 60
ttctcacatc aaggaagcat tgtaattca acgagtacac aagctgtgta ctcataatta 120
agttgtcagt ttccacaact gtaattcttt tattattggt tatggcgact agaagtctct 180
acacactata ggtcagggcc atggetcaaa ggtaggcta tagctcagaa gaggactact 240
ttctatgaat cttagattatt taattntaaa gggtaaaata aagatattat agagtatatc 300
tgtttgataa ttntattaat acaaactaat taattaaaaa atataagatt aattcgtttg 360
tctgacaata ttatagttga taactgtatt acaacatgat aatgtataat atacatggta 420
ttacatctaa tatcattttc tatcattgac atatagtatt 460
```

<210> 12632
 <211> 437
 <212> DNA
 <213> Glycine max

<400> 12632

```
ctcaagcctc tctgtggtat taactcatgc gaagggtgc ccttgacaaa tactgagatt 60
aatactatct taggcatccc tccattcatt gaatcccctt ggagtggaaa cccatcctcc 120
gcagccagtc aagcacatag tcccatgata ctgaatcata tgccttctcg tatccacttt 180
aaagacaatg cacagcttct gccctctcct atcttctctg accacctcat ttgcaattac 240
cgcgctatgc acaaaatgcc ttcttttaat gaatgcaaat tgccttttgt ctatgaagaa 300
cggcatgacc ttcttccatc tgttggttag tagctttgcc aagggtatta atcaaataac 360
tacgtccgga tatttagaaa ccttttcacc tgttgctgtg aaacctgccc caatcaataa 420
atagtgacta ttgctct 437
```

<210> 12633
 <211> 438
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12633

tctgtggcttc ttgagaagc tctgtcaaga tgcttctttg agaattctaga tccttatcta 60
tccacacccc tcttttagct gaattaacct cctctaaaaa aattacggat gagaataacg 120
caacatataa tcaaacatca gacataatta ctaataatat atagatatat atatatcagg 180
gttgtaaac tctcccacc ttttagaaat ntctgtactca aaatttacct tactcaaaca 240
aggatgggtg agcttctcgc atctgactat ctaattacca cgtggcatct tctcctgatg 300
cacctctca gatcaccttg accaacgaaa tctctttccc tcttaagtgt ntnggtcgcc 360
tatecttgat cctcaaaggc aatgtttcat atgtcagaat ctccttcaact tgaccatcat 420
caattaatca catgggat 438

<210> 12634

<211> 551

<212> DNA

<213> Glycine max

<400> 12634

tgccagcttc aaccacaatg ttgaatagaa acggtgctta tgggtcccct tgccctcaggc 60
ctctctgtgg tatgaactca tgcgaggggc tgccattgac aaatactgag atataagcag 120
atcttaggca tccctccatt catcgatcc acttggagtg gaaacccatc ctccgcacca 180
agtaaagcac aaagtcccat gatactgaat catatgcctt ctctgaatcc actttaaaga 240
caatgcacag cttctgccc tctctagctt cctcgaccac ctctattgca attaccggc 300
tatgcaacaa atgccttct tcaatgaatg cagattgcct tttgtctatg atgaacggca 360
tgaccttctt caatctgttg gctagtagct tttgcaacgg atttaatacca ataactagtc 420
aggattatc agaaacctt ccacctgttg ctgtgaaacc tgtcacaatc aaaataatgt 480
tgactattgc tctgtctcat cactgggtcta ttcaataaat tgtgtgaaca atgctctcct 540
taatgggcat t 551

<210> 12635

<211> 425

<212> DNA

<213> Glycine max

<400> 12635

tcagctttct agaaactgaa caaaggaagt tctctagata tttgaatggt cataactttt 60

cacacagatg tccgattcgg ggacataata tatcaagacg ctccaagtgc aacagtggaa 120

gctctcaagc aaatcgaata gtcataactt ttcacaatga tgttcgattt tgggacataa 180

tatatcgaga tgttcgaaat tgaaaaacgg aagatttcga gaaattaaaa tggtcataac 240

ttttaacacg gatgtccgat tgggggagat aatatatcga gacgctcgcc attgaacaac 300

caaagctctc gacaaattca aatgggtagt aattttcaca catatgtccg attcggagac 360

ataactcatt cagacgctca atattgacaa tgggaactat tgagaaattt gaatggtcac 420

acctt 425

<210> 12636

<211> 523

<212> DNA

<213> Glycine max

<400> 12636

agcttaacaa aaggcatgtg aagtgggtgg aattcctata gcaattccct tatgttatca 60

aacataaaaa gggaaaagggt aatattgtag ccgatgctct ttctcggcgt catgcattac 120

tttctatgct tgaaacaaaa ttgattggtc ttgaatgttt gaaaagcatg tatgaaaatg 180

atgaaacttt tggagaaatt tttaaaaatt gtgaaaaatt ttcagaaaat ggtttcttta 240

gacatgaagg ctttcttttc aaagaaaaca aattgtgtgt gcctaaatgt tctactagaa 300

atttgcttgt ttgtgaagca catgaaggag gttaaatggg gcattttggg gtccaaaaga 360

ctctataaac attacaagaa catttttatt ggctccatat gaaagaggat gtgcagaaat 420

tttgtaaca ttgcattgta tgtagaaagg caaagtctaa gggaaagcct catggattgt 480

atactccatt gcccaattcc cgagtattct tggattgatt tat 523

<210> 12637

<211> 373

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12637

tgtcaccacaa cactagataa gaatccctca tgttggttca tgtaaaccctc ttcttctaga 60
 tcaccattca ggaacaccat ttccacatcc atttgatgca actcaagatc aaaatgagct 120
 actaatgccg aaattactcg aagagagtct ttcttatata caggggaaag gtctctctgt 180
 aattgatccc ttctctttta gtgaatcctt tagcaacaag atntgcctta tgtctctcaa 240
 tgttgccctc taagtcttct tttgttntga agaccatct acatccgatg gcttttacac 300
 caacaggcaa ctcaacgaga tcccaaactt ggttagatgc catagaatcc atctcatccc 360
 tcatagcatt ata 373

<210> 12638
 <211> 380
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12638

agcttgtgca ttcaatatcc tgatgaggat gttccatag ttctcaagac tggactaata 60
 catttgcctc ccaagtttca tggctcttga ggtgaagatc ctcataatca tcttaaggag 120
 ttccatcttg tctgttccac catgaagtcc gctgatgtcc aggaagatca tatctttcta 180
 atggctattc ctcatctctt ggagggagtg gcgaaagatt ggctgtatta ccttgcctcc 240
 aggtccatta ctactgtgga tgaccttaag aggggtgtgt tggagaaatt cttccctgca 300
 tctaggacca ctgccatcaa aaaagacatt tcaggcatta ngcaacttag tggaaagagc 360
 ttgtatgagt actgggaaaag 380

<210> 12639
 <211> 353
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12639

gttatagaca gganatcata tattgaatat atcatcaggc ttcatatctt ccaaagaaac 60
 cctttccatg ctaattccaa gcagaaaatt gaatcattcc taacctgtan actaggaaaa 120
 ctatcatcag cctcacccgg tcttgaaaca tccagtcctc tgaccaatca tcanaggagt 180
 cagtaaagag tttcaaactt tcaatacctc ggaaaacaaa tatgcaagga cagggtgtata 240

gaaattccta cttccattga attcggttct tgagtttctt tctataagt ccaatccctt 300
 caagaacatn tggtatatca tatatctctc tcttttgcac ctgcagatac caa 353

<210> 12640
 <211> 418
 <212> DNA
 <213> Glycine max

<400> 12640

agcttatgct gcaaacatct acaatagttt cttctcatcc tcagtttcaa aatcagccac 60
 aaaagaacaa ctatgacctc tctagaaata ggtacaatcc cgggtggagg aatcatccca 120
 accttagatg gtcaaatcat tcacaacagc aacagcaaca acaacaacag caacaacccc 180
 agaacaaca aatagttgag gcttctccgc aaccttcctt tgaagaactt gtgaggcaaa 240
 tgactatgca aaacatgcag ttccaacaag agaccagagc ctccattcaa agcttaacta 300
 atcaaatggg acaattggct acacagttaa atcaacagca gccccagaat tctgacagat 360
 tacctttctc atctgtctag aatcccaaaa atgggagttc cattacattg agatcggg 418

<210> 12641
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 12641

agctcggaat gcatgatttg ctcgattatg ggaagagaaa tcatccgtgt gaaatcacca 60
 aaggaaacctg acgagcgtat cacgttatgg ttcatgagg atgtgcttga tgtattatta 120
 aaagaaagtg tcagacctac aattatttat ttggatgtg ctatactaaa tgccatactt 180
 tcattttaca ttattgtcaa tatgatttca cagggaacaa aagctgttga gggattgact 240
 ttgatgcttc caggagtaa tacaaaatgt ttgagtacta catctttcaa gaagatgaag 300
 aaactcatgt tacttcaatt tgctggtgtt gaacttgctg gagattttaa gaatctttca 360
 agagatttga gatggctata ttggatgga t 391

<210> 12642
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12642

```

agcttctata gaagggtcgt acctaatttc tctacaattg tctcacctcn caatgagctg   60
gtgaggaata atgaggcatt tacttgggggt gaaagacaag agcaagcctt tgctttactc  120
aaagaaaagc ttactaaggc acctgtttcta gctcttcctg gacttttctaa aacttttgag  180
ctagaatgtg atgcctctag agtgagaatt ggagctgtat tgttacatgg ttggcacccct  240
attgcttatt ttagtgaaaa acttcatggg gccaccctca actacactac ctatgataaa  300
gagttttatg ccttaataag agccctccaa acttgggaaa attaaacttgt ttccaaggaa  360
tttgtcattc atagtgatca tgaatcaact taagtacatt agagggcaaa ac           412
  
```

<210> 12643
 <211> 417
 <212> DNA
 <213> Glycine max

```

<400>        12643

agcttattct tcttcattat gcgacgggat tcatgttctt ctacggcgtg gacaccacaa   60
cctcattctc tgatatcggg ccactgacat gggctgcggc gggccaagg tggaggactt  120
ccccgcgggt gtctctgtga gagagcgaaa ggcgttcctc aaagccgcat cagagcaacg  180
ctacgtctc gccgtgcac acgtggcgta ttccattcg ctgagtgaat tcggcgacgc  240
ccttcacaag ttgcgcaaac aagacctcac caccaccacc gggtctctct ctccggttct  300
cacattaccc tcggaaacca aaagcatcaa caataacaaa ctctcctcct ctcccccttc  360
tatagcatct aatgaaaaaa aactatgaaa aacaaaacga atggcttaat tcactgg    417
  
```

<210> 12644
 <211> 354
 <212> DNA
 <213> Glycine max

```

<400>        12644

tcattggggt ttgttgattg gtttacaagc ctgcgtttaat atttgctcct cacagatcgt   60
aacactttaa agttcaatct cccattgtc catatcatc gctaacaaag caagaatata  120
tgaaagaaga tgaggctctc aatcatattt ctttgcattc tgggtgtatc gaacgagggg  180
gctgcggaat agtcagctga cgacgttctt gagaaatacg atctcccagt tgggcttctt  240
  
```

ccaaaaggtg ccacagggtg tgaattaaac gaaaagaacg ggcacttcac agcgtatttg 300

aatggaacat gctactgcag catagagtcg tatgagctac agtacgagtc cacc 354

<210> 12645
<211> 382
<212> DNA
<213> Glycine max

<400> 12645

agcttcgccc aaaaccatgt tcatttatct tctaggagag ccatgttgta gaacacctca 60

atccccatgca aacgacaata atcaattttg ttcttaatag cctttaacaa gtaatgatcc 120

ccaaacgggat ttctgcacgg ttctggcgac gaccagtta cgaaaaacac gcggggcttg 180

ttgggtcgaa ggaaattcga gaaattggga ttctcgcgaa gccagcgaga tctctgttcg 240

tcccagatcg atatttttgg gccgagacga tacgcctcgt gtgggttaac ttctcgcgg 300

ttctcgtctt ctgtttcgcc taccaagatg gtgttgatgt ctaacgcgtt gtaattggtg 360

gtggaagtgg aactttcaaa cg 382

<210> 12646
<211> 422
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 12646

tcaagctata atgagaagac cacaggcata ttnttttttt cttatgccaa atttatagat 60

gctgggtgtaa gcaagagtat ttcacctgca cagaagagta ctcactaca acagctagca 120

tatgtgagga gttttcctag tggggagaga aactgttaca gaataaatgt aacaagtgg 180

actaagtatt tgatcagagc tactttcttt tatggaaact atgatgggtct caatcagccc 240

ccacaatttg atcttcactt tggagcta atatgggaca cagtgaactt ccccaatgct 300

tcactcagtg aaatcagtgat gatcattcac actccatcac tagattacat acaaccatgt 360

ctgggttaaca caggcaaaagg gactccattc atttcagcta tagaattgag gactntgaac 420

aa 422

<210> 12647

<211> 425
 <212> DNA
 <213> Glycine max

<400> 12647

ggttgtaate gattacacac atactgtaat cgtattcctt tatgttattt tcagaaaaata 60
 ttctcaattg tcacatcttt tcatttggtt cttgaatggc tatcaaaggc ctatatatat 120
 gtgacttgag acacgaattt gccaaagattt tttcagaaca aaaaggcttt atcctcttaa 180
 aaagcaaaat cyttttatcc tcttacaat tccctggcca aaacacttgt gattcaataa 240
 ggaattattt gagtgcctaa attgttcaat ctatctcttt caagagagat ttcttcttct 300
 ttcttcttct attctgaaaa gggattaaga gaccgagggt ctcttggtgt gaaagaatta 360
 taaacacaaa ggaaggattg tccttggtgt tttagaactt gtaaaaggaa ttacaagat 420
 agtgg 425

<210> 12648
 <211> 400
 <212> DNA
 <213> Glycine max

<400> 12648

agcttcctta agaagatttc taaagaatct agagcttagc tacacatacg tctctaatag 60
 ctaagctcac ctcttgaga tgagaagcta caacttagct acacatcccc tataatagct 120
 aagctcaccg gcatgacaaa atacatgcaa atacaaaaaa aatccctact acaaagacta 180
 ctacagaatc ctcaaaatac aaggctaaaa ccctatacta ctagaatggc caaaatacaa 240
 ggccctaaac atggaaaaac ctattctaatt atttacaag ataagcaggc tcatacttag 300
 cccatgggct cgaaatctac cctaaggctc atgagaacct tagggccttc ccttggaatt 360
 atggccaat ctacttgag tcttctatct aatgcccttg 400

<210> 12649
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12649

ctgcagcttg cttatcatnt tatttcttt ctaggctttt tcgacgactc accacctgct 60

tcaaaagatg ctacaaaccg gaagaagcac tagtgctata gttatcattg tattaattgt 120
 gcttgtgctc ttttctttgt tctcctttgt actttttaag ctgtggctga agaaaaaaag 180
 ggaggagcaa tatgctcgtc tttaatgcta atgttttttg ctttgtgttt tccagcttcc 240
 aggggataaa atattaggtc tggcaaaaat ttcttgggta ttggaatccc aggagatgcc 300
 aaggacttct tcaatcaagt cgagtcatta ggttttctag agagcaatat gaaagtgctt 360
 tactaaaaac aatcttatta tagattgcag ct 392

<210> 12650
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 12650
 tagtaaagct aggcaactaac aatctccctc tttgtgttaa ttttgtctaa aacatactta 60
 gacacttcct gaggcaggtac gaggcagttat gcaagtggga tcagcaactt tcattatcag 120
 agtaatcaag cacagcggaa attctgcaag ttgcaagtcg tttccaggat gtcaagacat 180
 ctcacatgac atcagctttc tgctttctgct cccctgtct ccatgctctt actgcagcat 240
 cttctatcag ctactagtct tttccaggat gtcaagacat ctcatgtgac atcagctttc 300
 ccttgtctcc atgctcttac tgcagcatct tctatcagct actagtagct tacatcagtc 360
 atcatcagca gcagcagctc cccctcaaa atcatgtaca tacaactccc cctca 415

<210> 12651
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12651

tactcaagct tgcnatcgat tacacacata ctataatcga ttaccttatg agtttgtttt 60
 aaaacattct caacagtcac atctttttat ctgtttctta aatagccatc aaaggcatat 120
 atatatgtga cttgagatac gaatttgaca agagttttga agaacaaaaa ggtcttatcc 180
 tcttaacaag caaaattggt ttatctctt acaaattcca tggccaaaac acttgtgatt 240
 caataaggaa ttatttgagt gctcaaattg ttcaatctat ctctttcaag agagattact 300

tcttctcttc ttctttattt tgaaaaggga ttaagagacc gagggctctt tgttgtgaaa 360
 ggattctaaa cacaaggaa ggattgtcct tgtgtgttta gaacttgta aaggaatcta 420
 caagatagtg gaactctc 438

<210> 12652
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12652

taaggctcaga atgaactttg agcttggaaac gtagtttgaa ttttcgatcc ttggntaatg 60
 gttttttgaa gatgtcagca atttgatcca cagaagatac atgacagatt tggagcaatt 120
 tggattcaac aagctcatga atgaaatgga aatccaaagc aatatgtttg gacctagtgt 180
 gtataacagg attcttggtc agaaaaatgg cgctgacatt atcacataac aataatggag 240
 gacgtctaag aggaacacaa agatcttgaa gcagttgttt gatccacaac agctcagcag 300
 cagtgtatgc gagtgaacaa tacttagctt cgggtgctaga tcttgcaaca actcgttggt 360
 ttcgagaagt ccagctgata agattggatc catganagat ggcataacca tactaagacc 420
 tgctatc 427

<210> 12653
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12653

agcttaaaact aatttcaact aaatcattta tagaggtttt aaatttcata ttatagtcac 60
 accgagccaa atcggactgt atgattttta agtttgatcc aaatggcatg taatgaaaaa 120
 actaaactaa atcgcacag aatatttttt gtaaaattat tttatantaa tttgtgtgat 180
 gaagaagagg gaaaaaatga aatcatttaa ttaatgtaat aatgagttaa aaaaactatt 240
 ttacaaagac ttaaatatgt ttttggcttc tgatatatac tcaatttttg tgtttaatcc 300
 ctaataaatt tttccttcga atcggatccc taatatttta aaagtgttgt ctaaggcccc 360
 tgccattaac tatgattcat taactgttta cgtggctggt aacttgac 408

<210> 12654
 <211> 298
 <212> DNA
 <213> Glycine max

<400> 12654

agacagaagt aaccttaagt agtgatttat tagaatgaat tatgagagtt tccagatcca 60
 ctccaggatt ttttttaaca tccagatttc acttttagtg aggaacttat tcccatgcag 120
 aacactcttt cagctattat gctcctatgc taaaaaaaaac gtgaaaggaa ctgcctacct 180
 gagatagaat gattggacca ccatgagact gaaatagctt ttcattcttc atcatctgga 240
 ctattttctg agtgaaacct tgctttgcgg cttaaagtaa aacagtaaaa ataagtgt 298

<210> 12655
 <211> 424
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12655

agaaactcag cttttaaaat cactttgaaa ccatgctttg tgttttttta ttnggcttcg 60
 ctatgacttc attagcaatc atcacaccat ggagaatatg ccttcctttg agaaaggcag 120
 ttgctcttc atcaataatg tgaggcaaaa caagagccaa cctattagca aggactttag 180
 acactatttt ataagcacac cctataagag agatgggtct ataatcatta agagattgtg 240
 ggtaaatgat cttggggata agggctatga aggatgcatt gcttcctttg gggaaatctgc 300
 catttatgaa gaactcatcc atgaacctga taaaatcagg ttttagaatt tccaaaaact 360
 gttaataaaa gttgaagttt aaccatccg ggccagggtt tttatctcca ccacaagccc 420
 aaac 424

<210> 12656
 <211> 342
 <212> DNA
 <213> Glycine max

<400> 12656

agcttttccg gagcccattha tattgcgttt tcgttcattg gtctccacct tcgagtttgg 60
 agctatgcgt agtgattgct tagtgcaatt ctccattctc aacctttttc ggagcccat 120

gaattgcggtt ttcgttcattg tgtctctccac cctcgagttc ggagctatgc gtagtgattg 180
 cttagtgcga tttctccattc tcaaaactttt ttggagccccc atgaattgtg ttttcgttca 240
 tgtgtctctc acccttcgagt ttggagctat gcgtagtgat tgctttgggc aattctccat 300
 tctcaacctt tttcggagcc catgaattgc ggtttcgttc at 342

<210> 12657
 <211> 397
 <212> DNA
 <213> Glycine max

<400> 12657
 agcttgaagg tgtgtagccc accatctttt atagtagaat actggtaatg tgtttactat 60
 cattgtcatc attttttttc gtcattgagg tgccacttga gctgccaggt ctctccacct 120
 ttgggcgtat tctttggaaa gatctgtgcc ctctttttgc acatgttctg tagttgcac 180
 ctatccgaag ccattatatt gacacaacct aacgaaggca accattaggt ccttccaaga 240
 atggactcgg gaaggttcct agttagtgtg ccaggcaaca gctaccccaa taagactttc 300
 ttggaaggaa tgtatcagca attcctcatt tcttatgtat gccccatct tccgacaata 360
 catctttaga tggttcttgg ggcaagtagt ccccttg 397

<210> 12658
 <211> 408
 <212> DNA
 <213> Glycine max

<400> 12658
 agcttccctt tcttcggcca atgctgggtt tgtttggcag tgatttcctt ggcaatttga 60
 tgctcagaaa cagcaatata tctactcca tcagtaggtc tgcccagata tttgttgatc 120
 acagcagggg agaactaac acactttcct ctgacaaata ctttttgata ctcatcactc 180
 tttctgtttg ttatgtcaga gggaaatgtg acaatgaatt ccttgactag gccttcataa 240
 cagtctccca atttggtgac tgtcttcagt agtccagcag cctcgatgag gtccatgatt 300
 tccttgcaat ccaaggcatt tcttccatt tctctttcta aagcaagcct tcgttgatat 360
 acaaatttcc acctttcaac attgccaatg gagggaaag agatgttg 408

<210> 12659
 <211> 408
 <212> DNA
 <213> Glycine max

<400> 12659

```
agcttttcgag gtgaggacac ccgaatgttt ttcacatgcc atcttttacga agctttgatg 60
caaaagaaaa ttaaaccta tatagatgaa caacttgaaa agggagatca aatcgacta 120
gcactcacca aagccatcga agattcttgt atatctattg tcatcttctc agataactat 180
gcttctctcaa agtgggtgctt ggggtgaactc ttcaagatct tggaatgcaa gaaagaaaaa 240
ggacagattg tgataaccagt gttttacaat atagatccat cccatgtgag gaagcaaatt 300
gggagctata agcaagcctt tgcaaaactt gagggagagc ctgaatgcaa caaatggaaa 360
gatgctctta ctgaagcagc aaatttagtt ggggttgact ctaaaaat 408
```

<210> 12660
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12660

```
tctaaactgt gtacaagaac gaagctctgt accatatgct ttacagnggc cacagatatc 60
ttaagaaggg ggggttgaac taacatattg caaactgttt gccctaatta aaaaaaatct 120
atgtgacttt ttactcttgt tatgaaatcc cttaatgaca atcttcctaa atattaatcc 180
aatgaagca tcttgaatat gaatatacag ctttgataag taaaggagat tactggaaga 240
tgaatacgct aacatcagtt ttatacttgg tcggccacac ccttgtgcct acgtacagta 300
ccaagcaac ccgcttgaga gatccactat cttcgcaaat cctttcaciaa gttctaaaca 360
cacctagaca atccttcctt tgtgtctata gatcct 396
```

<210> 12661
 <211> 405
 <212> DNA
 <213> Glycine max

<400> 12661

```
agcttgtgag gatcggtggt tgtctttatg tcaaactctc tcacggagtg atttgttgga 60
```

gagcaagctg tttatcaaac taaccaacta catgataata tttcaaagat tcagaccct 120
 gtgataacag aactagatat aaacactaat tttaatctat atatgatcta taaaaaaagg 180
 gaataccatc tgctagttag acatctgaat atcttattaa ttatgtacta tttttcaatg 240
 tttataaatt tagaaaatta cggtaaatg ttagtattca acacttttcc aagtttttatg 300
 aatattaaac ttctaaccat tttcttaaat aatatttaac gcatttttaa tttatcaaac 360
 aattagtcca atcaaatatt tttttgttg actcacgtta aaag 405

<210> 12662
 <211> 366
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12662

gagcttcngg aaggaatatt tcggtgtgtt tgcaattttg caatccggca tcccaaatct 60
 ctggagagtt tcaccagcat atttcctttg atgcatgaca atcccatatt cagtcacaaa 120
 gaattctaac ccaaggaaat atgacaattt cctaagtta gtcatttcaa attcactcat 180
 catgagtga gtgaaattat caatctctgt tgtatgatta ccagtcacta gtaaatcatc 240
 aacgtatagg cacaccatta acaccttgtt atcctccttc aacatgacat aaactccatg 300
 ttctaccaca cactttttga agccaagttg agcaagatat gcatcaattc tctattcca 360
 tgctct 366

<210> 12663
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 12663

tcgatggaga acaaccttag gatgcagtat ttacatgcac agagaagaaa aaagtgaag 60
 caaaataggt caggtctaata ataatttaaa ttgtaagttc aacatcggtt ttcaataaaa 120
 aaaaaaaaa aaaccaatgt taacaacttg atgttaacgt taacatcgat tttattaaac 180
 aaaccgatgt taacgaacta aggttaacat cggttttctg aaaaccgat gttactaat 240
 taatgttaac atcggttttt caaaaaccga tggttaaagtc acttcattaa catcggtttt 300
 cttcaaacat gatgttaacg tatacacatt attcacaatt atgccaccgc gttatcttaa 360

catcggtttt ttaaaaaacc gatgttaata aagtctcatt atttatcatt 410

<210> 12664
<211> 407
<212> DNA
<213> Glycine max

<400> 12664
agcttcttat ttgatccaga gaggagtgc tacattttat ttactcaag tcacgcccac 60
taaactctgg cacaatagac ttggtcattg ccatcttgaa agaatgctaa acatgaaaaa 120
aagggaata tgcaaaagaa aatttgaaga agtttcaa atggaggaatgc aaatctgtta 180
gcacaccaat gaatcaaaa gagaaagtcca gtaaggaaga acgtgttgat aacaattatg 240
aaggatatta tgggaacttg attggatgac taatgtatct cattacaaca aggccaaaca 300
ttatattttc tcaaaagaac aaaactggaa tttttgttga caatcaagta gtcattgcta 360
ttgcaaaaca tctcgtgtgt catgggaaga cttaacatat taacatc 407

<210> 12665
<211> 423
<212> DNA
<213> Glycine max

<400> 12665
tggttatctc cttcttcaat acatcaagaa tcacctggtt gtgtctctc tgtggctgtc 60
ttactggttt agctccatcc tctaaattta ttcatgcat acatgtggat gggctagtag 120
caggaatgac cgccagggtc caacctatag cttctttatg cttcttgaga acagacaaca 180
acttctctc ttgtcatca ctaagggagg cagatataat cattggaaaa cttttgctat 240
catccaagta agcgtatttt aaatttgatg gcagaggctt caattctggt gtgggtggct 300
gggtagtggt agaaggagat gggttctcag cctgtacctc ataaagaaag tcagaggtag 360
gtgtacttcc tgaacatgg ttagtctat ctgactctat aaaatcaatc tcaagaggca 420
aaa 423

<210> 12666
<211> 367
<212> DNA
<213> Glycine max

<400> 12666
 actcgggcaa gtgtggccat gtactcgcgt ttacttgccg aaagagcaac aactgattgt 60
 tgatttgctt tccaactgat tgtttgtacca aacaaagtaa acacatatc tattaagac 120
 ttcttgtgt ctacatttcc tgcaaaatct gcactacat atcctgtgac tgetgcctcg 180
 tgtgctgtct tcttgtacct taaactagct ttcaaagatc catttaaata ccttagtgtc 240
 cacttcacag ctccccagtg tgcactgcca ggatctacca tgaatctgct tataatactt 300
 acaacatgag ccaagtcatg ttactgcaa accatttcat actctattgt tccaacacca 360
 ctggcat 367

<210> 12667
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12667
 tactcaagct tggttcccaa cgctctgtac aagctctgtt ttatttacag ttttatcnaa 60
 gatctttggc agatactatg ctatatggca caccatgtaa ctagacaacc tcacttatat 120
 acaagggtgt gaacttctcc aaggaaaatc tgatattaac gggaatgaag cgagtagact 180
 tagtcaatct gtcaacaata acccagatag aatctaaacc tctacgggtt ctaggttgtc 240
 ttaccacaaa atccatggaa atactgtccc acttgcaactg gggtatctct aacggttgta 300
 acttccctta aggtctctga tgttatatat tatccttctg acagactacg catgcataca 360
 cacactcact aacctctctc ttcatgttgg gccacacaaa catcatcttt 410

<210> 12668
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12668
 tgtttcttgc aattccaaga cacaagagag cttcctttat gtggcatgta attngcaacc 60
 tgcacaatca gaatctctat atcttgactc atccactgat ttacctttct catctaagtc 120
 aaggtaggtt gaagttgtcg ttggagtata tggttctttg cattttttat gccaaatttc 180

ttaattagtt ctatagagta tttggtttga cataggaagg ttccatgttt catctactgg 240
 acttggagtc caaggaagaa atttaactca cccatcatag acatctcaaa ttccttctac 300
 atacaactag aaaattcctt acacaaaatt tcattactag caccaaatat aatatcatca 360
 acatatattt gaacaattaa caactcacta tttactttct taataaacia tgttttgc 420
 act 483

<210> 12669
 <211> 422
 <212> DNA
 <213> Glycine max

<400> 12669
 gcttctgttt tcaaattcga gattctcaat attttacgtt gactttatcg gacatctgag 60
 ttaaaagtta ttgtcgtttg attttgcga gagcttctgt tatcaattac gagcgtctca 120
 atatattacg agacttaatc ggacatctga gtaaaaattt attgtcggtt gattatgctc 180
 agagcttcta ttctaaattt caagcgtctc aatatattac gggacacaaat cggacatccg 240
 agtaaaaggt tatggctggt tgaatttgca gagagctttt gttttaaatt tcgagcgtct 300
 cgatatatta cgagactcaa tcggacatcc gagtaaaaat ttattgtcga tagaaatttc 360
 ttagagcttc cgttatcaat tatgagcacc tcgatatatt acaagattca ttcgttgatc 420
 cg 482

<210> 12670
 <211> 402
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12670

agctntgatg caacatttgt tgagggtttt gaaatatcga gatgatgcgc tccatgagag 60
 gttggatcaa atggagaata gagatcataa tgaagaagaa aggaggagaa gagggaaatga 120
 tgggtgttct agacaaaacc aaattgatgg tattaactc aacattcctc catttaaagg 180
 aaagaatgat cggaggcct acttggagtg ggagatgaaa atagagcatg ttttctcatg 240
 caacaactat gaggaggacc agaaggtgaa gcttgccgcc acggagtttt ccgactatgc 300

tcttgtgtgg tggaaacaagc tacaaaaagga gagagcaaga aatgaagagc caatggttga 360
 tacatggagc gagatgaaaa agatcatgag gaagcggat gt 402

<210> 12671
 <211> 419
 <212> DNA
 <213> Glycine max

<400> 12671

tytatgagta ctgggaaaga ttcaagaaat tgtgttctgt ctgtctctac caccagattt 60
 ctgagcaact cattcttcaa tatttctatg agggacttaa caacatggag aggagtatga 120
 ttgatgtgc tagtgggtgga gctcttggtg atatgacccc tgctgaagct aggaatttga 180
 ttgagaagat ggcctccaac tccaacaat tcagtgcaag aaatgatgct attgtcctta 240
 gaggagtcca tgaggtggcc acggattcat cttcatctac tgaaaaataa aagcttgaag 300
 gaaaacttga tgccttggtc aacctagtaa ctacgcttcc cataaataag aaatctgcac 360
 ctgttgcaag agtctatggt ctatgttctt ctgcagatca ccatacagat ctctgtct 419

<210> 12672
 <211> 390
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12672

agcttgtgaa gcgtngcaat gtagtnatta tagtacagng cagggcctgt ctctttgtca 60
 tagccagcaa gaaggatgtt cacagagtat gggttctata gaaaaaagaa aattaatggt 120
 tgaggcttca aatgaatcat taaccaacta ttgtatggtc taaggcactg tttggataat 180
 atgaattgat ctcataaagc taaataggag aagtaagatg aataagagca taaattgatt 240
 ttagcttctt aatttgtttt cctataagtg agagccaaag gacatgatat atgagagtta 300
 ggggttagaa gagatacctt gcggagagca gtggcaagtt cgccacgtgt gaaattggcg 360
 gcggcggcgg tggtagaggg gatgccgtta 390

<210> 12673
 <211> 424
 <212> DNA
 <213> Glycine max

tatatggcaa cttactgaat gggacaattc cttcttggtg tttatctttg ncattctttgg	60
tggatttaga tctatcagga aaccaattat caggccatat tagtgcaatc tcatcatatt	120
ccatggagag attgtcttta tcccacaaca agttacaagg caatattcca gaatcaattt	180
ttagccttct aaaccttact tacttagatc tatcatcaa caatctaagt ggatctgtca	240
aatttcacg tttctccaag cttgaaaatt tgggaagact tcacctttca cagaatgac	300
agttatcact aaatttcaaa tccaatgtaa attatagttt ttcccattha ttcagtttgg	360
acttatcttc tacgggttta actgaatttc caaaattatt gggaaaagtc ccaagtttgg	420
aatc	424

<210>	12674
<211>	415
<212>	DNA
<213>	Glycine max

<400>	12674	
agcttaagct ccttaaacac aggctgaatg tgtggattat agataacaca gcagatgtat	60	
gttctcaagt aaagcaactt cagcagaatc tgaatgactt ggaaaattca atgtcatctc	120	
agccttcgga gcagcaagct aacagctga agaaagtcca atctgagctt tgggaaaaag	180	
ctaattctca tgaatctatc atgagacaaa agtcacagaag taaatggatt aaagagggtg	240	
atagaaatag ctctgatttc cataagctaa tcaattacag cagaaggaga aatgctttaa	300	
ggggtctgat gattgatgga gcttggggtg aagacccttc cttgggtaag gctgagggtt	360	
tgcacgactt tcagaacaga ttccaagaac ctcatgctca tagacctaat ctaga	415	

<210>	12675
<211>	433
<212>	DNA
<213>	Glycine max

```
<400>      12675
agagatcacc tgagtgcatt cgcgctccta cctacaggag acggaccatt tttgtgtgtg    60
aqaatatcaa cqaccagqcc tacaagattg acttgcttag tqagtataat gtaagtgcca    120
```

ctttcaatgt gtctgggtcta tctctttttg atgcagatgg aggagccttg gatttgagga 180
 caaatccttt tcaagaagga gggagtgatg aggacatttg ataaaaattg gtgagagttt 240
 ctctctgggt tctttgttga accaattatc agacttatca aggtaatcct tgtggcgctc 300
 acccagaactt atcttccttc attggaagtg gcgtctaccc ggacttatct tcttcaccg 360
 gaagtggcgt ctaccagac ttatcttctc tcaactggaag tggcgctctac cctgacttat 420
 cttccttcac tgg 433

<210> 12676
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12676

gtgcttccac acaagcaact ngnatnnttt ttatcttctg aaagcacgaa gcaaagttaa 60
 aagttccatt caaatatcta aaaatgcatt taacagtaga taactaaact tcccttggtg 120
 ccttttagaa tctggcacia aggtatacac tgaacataat gtcaggctctg gacgcaatga 180
 gatatgaaag agatctcatc attcctctgt atgtcttttc atccacctgc tttgattctt 240
 cgtccagtc aagtatactg gttggatgta tggggctctt attgggcttg catcgcccat 300
 cttgaacttc ttcaaaagtt ctttcacgta cttggtttga tgtatgtata tgccttcac 360
 tattttcttg atctgaagtc caaggaagaa cttcaattct tccatcatc tcatctc 417

<210> 12677
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12677

agctntaaga cagnnngtta tatcgttttt gtatattcaa caagaacatc ctatttcttg 60
 acattgacac cttagtgatt aggttgtttc tcccatctct gatggaaaga cttgaattct 120
 tcatgtgaat atcatagctt tttttgagta attgtcttaa actcaaaata ttgttcttca 180
 tatttgggac gtagtaaaaca tttgatatga attcatgtcc tccatctttc aaacgaatta 240
 agatcttacc tttgcctttt acatgagtct tagaattatc accaaatgag acattgccac 300

ttattgattc gtcaagatcc acgaacatgc ttcttttttc gcacatatgg ttgcttgac 360
cagtgtcaag gtaccatgtg tttctttggc taccttcatt gcct 404

<210> 12678
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12678

ttgagccaat tcaaacgaca atatctnttt atttgatat ctgatttgtt cccgtaatat 60
aacgagacgc tcgaaattga atgttgaagc tcttagcaaa ttcaaacgtc aataagtatt 120
tactcggatg tctgattttg tcccgtcata tatcgagaca ctcgaaattg aatgttgaag 180
ctctgagcca attcagacga caataacttt ttactcggat gtctgattga gtcccgtaat 240
atatcgagac gctcgaaatt gaatgttgaa cctctgagca aattccgacg acaataacta 300
tttactcgga tgtctgattg agtcccgtaa tatatcgaga cgctcgcaat tgaatgtcga 360
agctctgagc aaattcaaac gacaataact ttgtactcgg atgtctgatt gag 413

<210> 12679
<211> 394
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12679

agctttgata tatattcana ttaagatatt tttatattcg gatgtccgat tgagtgccgt 60
aatatatcga gacgtccca attgaaaaca gaagctctga gcaaattcaa atgacaataa 120
cttttgactc ggatgtccga ttgagttccg taatatatcg agacgcacaa aattgagaac 180
agaagctcta agcaaattca aacgaagata actttatatt cggatgtccg attgagtcgg 240
gtaatatatc gagacgtac aaatcgaaaa cagaagctct gagcaaattc aatcgacaat 300
aactttttac tcgtatgtcc gattgagtcg cgtaatatat cgagacgtc gaatttgaaa 360
acggaagctc gtatcaaaa gtcacccgcaa taac 394

<210> 12680
<211> 409
<212> DNA

<213> Glycine max

<400> 12680

agcttccecta agggcagtaa tgcattcttt tctggcttta atacctaaat cacacaaccc 60
ccagacgttt aatgactata gatccatctc cctcattggt tgtatgtaaa aagtaatagc 120
caaattattg gcatacagac ttagcaaagt gatggttgac cttattgatg aaaggcaatc 180
ggcttttata aaggatagac acatccttca tggagctttg attctcaatg aggtagtaga 240
ggaagctaaa aggtgtaaga agccaacatt ggttttcaaa gtggactttg aaaaggccta 300
tgactcgggt tcatggtcac ttctggagta tatgctggat aggatgggtt ttgccttaa 360
atggagaaat tggatcaatg cttgtatgca atcagccact gtatcagtc 409

<210> 12681

<211> 372

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12681

agctngagaa tgcaagaact tatgtgcttt tgccacgcca acggcgattt tgcagcgccg 60
ttgccaactt aaactgttga caatttcgct taactttctc ccctcctcgt gctcgtacac 120
caagtaccct ctcttccac acctacacgt cgcaataagg ttaatgatat tcgggtgacg 180
aacctttcta atttttactg tctcttccca catactcatt ggaagtgaat tcaagtcgct 240
gatttccttc accacgaact gcatgtcgtt ttccatgcac ttcccttcgt accaaaccca 300
gtttgttccct ttgcacacaa cttttccttc tttaaccgtt ttcaaaacat cgtctacatt 360
gatcaacctt gc 372

<210> 12682

<211> 420

<212> DNA

<213> Glycine max

<400> 12682

agaccctgag gcacctgccg ctgcgactag ccccagacagg tggtgattta ttgttttggg 60
gaggatcgat aactatgcct atatgttggg cctcccagaa gagtatggag tcaacaccac 120
ttttaacatt tctgatataa ttctttttgt acgtggagct gatattgagg aggatgaact 180

aactgacttg aggtcaaate ctcttcaagg ggaaggggat gatgcaatcc tccctaggaa 240
 gggaccagtc actatagcca tgagcaagag gctccaacag gattgggcta gagctgctga 300
 agaacgcctt atggttctca tgaacctcac ggtagatttc tgagcccatg ggccaagggtt 360
 gggccaatt atctttgtac atattagact aggatgtcat tatatctgat ccttgatattt 420

<210> 12683
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 12683
 tcacctgcca cacagttaag gcattatatt ttccttatat catctctgac atatttatta 60
 agcagttgtc agattaaatt atttttaagg atatatggta tatttttccct tcaaacaaag 120
 gattagtata tttacttgta agtggtttttt tgtgttttaa cattttataa taaaagtaat 180
 attttctggt aaaacattct tttccccca tcggatcctt tagtagaaat attttagcca 240
 ctgttttagt aatgaaaccc ctcttaacgat ttaataacaa atcaaatata tattattata 300
 tccaaaatta aatataaaat tggtatatat ttgtcataac tttgattggt ttaattcaga 360
 ttgctttaat tcatgttttc attttacta atttaaacac ataacttcat atcag 415

<210> 12684
 <211> 402
 <212> DNA
 <213> Glycine max

<400> 12684
 agcttatagt atcatttatg tttgcattaa caaaatattt tgcgcacaca gttatatgat 60
 cgtacctcta tatcacaaca accacagact atcccgtttc cctgtttgta acctccaagt 120
 aatttctgaa acacacatta atcatggaaa agaataaaaa tcaagtgcga atcaaccat 180
 aagcaccaaa tgacaaaaaa tatttaaaga aaatattaag acacctgtcc tttgacatag 240
 taagccaact cagcaccatc tggtagccca tttggcataa aaagcaacct gtgtaaatca 300
 ttgtccctga taaaagcaaa aaatcaaatt caaactacag tagctaagct attgcaattc 360
 acatagagaa gctagaggaa tggaacaggc atccccaaaa ac 402

<210> 12685
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12685

ttcttctagc cacgggagtn ataaatatta tccttgaatg tatgcaaadc ttaatcatgt 60
 gagtaatatc aactaatcaa gaatntagct aagcaaaatg atgacacaaa agggcaaaata 120
 tgaaagtaaa ggggtagtaa gacagagcat taccactttt atttgtgacc aacacaagaa 180
 catctccatg aagtgatccc cttttggagg cctcgtgaat ggctctgaag ttggatcctc 240
 caccagacac gaatactgct agctttttcc tccccaccgt gacctgagcc gttacctcat 300
 ggcctcctt tggttctgca gcactactac tactactact actactacta ctactactac 360
 accatatcct cctccaagaa ctagaacaca cttctntgtg cacaatgctg ataggatgga 420
 cagctctgc 429

<210> 12686
 <211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12686

atggatgtat ccatgcttat tgatttcttt tctgtgtatg tgacaggggg ggaaaaggag 60
 tgatgggcga acacctgacg gaatacgtcc aattaactcg agatgtggcc tattacctat 120
 agcacatgga agtactcttt ttacaagagg cgagacacag gtctgagcca actntatatg 180
 tttccagtt tatgctcttg atgatattctg atggtgtcta tatatgctta tgcaagtcac 240
 attatctctt ttctgtgttc gtatctttat tacaacggag atcgaaatgat caaacacaaa 300
 cgaggaacac aactaataat gctgactcct tggaccttaa cacacttctt attaaagtct 360
 ccattgtagt cacctggata tatctaaaac tagtgttgga gtcagatctt gatactcagc 420
 ta 422

<210> 12687
 <211> 444
 <212> DNA
 <213> Glycine max

gccttgatat	gagtagtggt	tagagtctcg	atgtattggc	tgatgagtac	tccagtagca	60
tatataatgt	ttggtcttgt	gtgtcaaaata	tcataaaacta	cccaccacac	tcttgaaatc	120
tatagcatcc	agttttcttg	cttcgtcgaa	ctttgataac	ttcattntgc	actccatcag	180
tgttccaatt	ggcttgcatc	tatccatctt	gaatntatta	agcatcttct	ttgcgtagct	240
ntgcagttaa	atgaagatnt	catcttcttt	ctgctctacc	tcaatggcaa	gatagtatga	300
cattnttccg	atatcgggtc	tctcaaaactc	cttcatcatt	tctttcttan	actctgaata	360
attgtatgcc	ataagtatat	ttnggattaa	atcatataag	aattgtaatn	ttcctctcta	420
tntcttcttt	ttggtgaata	atat				444

<210>	12688
<211>	400
<212>	DNA
<213>	Glycine max

```
<223>      unsure at all n locations
<400>      12688
```

attctaccct	ctgatccctt	aacatactta	atgctttccc	taattntttt	tacagcagga	60
crgactactt	tcaacccctc	ttgaacacta	aggtttaaaa	tgtgagcaca	acatcagata	120
tgaaaaaatt	caccaccact	tactaaacca	ttagtatgca	aaagtctttc	cttcaaatag	180
tcttgcatth	tatcattgga	agaagcatca	tctagaatta	atgaaaatat	tttctgctca	240
atccaccatt	cttccaaaaa	aaaccatata	taacttttagc	catctcacgc	cccgagtgtg	300
gaggaggaaa	atgagaaaana	ttaaccattt	taccattcaa	cttccaattt	gcatacaaat	360
aatgcgcagn	taatgaaata	taacctcaga	agtacaagat			400

<210>	12689
<211>	359
<212>	DNA
<213>	Glycine max

```
<223>      unsure at all n locations
<400>      12689
```

atgctagacg anatatagat gggaatagag gtaacaatgg cggtaatgac ggaccgaggc 60

agaaccgggt tgaggaggta aagctcaatg ttctctccctt caaaggtaga agtgcaccag 120
atgcctacct ggactgggaa atgaagactg agcacgtatt tgcttgcaat gactacactg 180
atgcgcagaa agtcaagcta gcagcagctg aattctccga ctatgccctt gtttggtggc 240
ataaatacca nagagaaatg ttgagagagg aacggcgaga ggtagatata tggactgaga 300
tgannagggt gatgagaaaa aggtatgtgc ccactagcta taacaaaacc atgcgacag 359

<210> 12690
<211> 422
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12690

ctactggaga gaatgtataa tatatatcga tcccaacttg ttgagtatat cctgtggcaa 40
tcaatcgagc tttgtatcta tctatagagc catccattnt gtatttcacc ttatacactc 120
atctacatcc aatatagtgc ttatcagggt gtaatggaac aagtgtccaa atggaatatg 180
cttcaagagc ttggatttcc tcatcatttg ctgcagccca ttcangataa gaagcaactt 240
gatgataaaa ttgagattca tagacaactg anatgtgatt aatgaaagct ctgtaaaggg 300
ggctaagagg caacaaggag caataatgtt ggatgggata tgcagcctga gaatgtgaaa 360
tgacataatc agacaagtat aagggaggct tagagtggcg tgtactcctt cttaaagtaa 420
ca 422

<210> 12691
<211> 322
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12691

ttgactcatt ctctccttga agtgacgtct ccaatcacct ttctctcttc tccattctgc 60
tgccattgat cttaagaag caaaggattt cattgatgaa gaagatccaa ggcttacaag 120
ctctacatgg agctacatca tgtggtatca agagcatctt catctaagtg atgttctttt 180
gtctctctca tcttttgttt ggtcaattca ctntaattcc ttgttcttca tcatattctc 240
catgtatctc ctccattatc ttgtggtttg gttctgggta tagtagattc aaaatataaa 300

<210> 12692
 <211> 484
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12692

gctcttgaac tggctctgta aacatatcag ccggattgtg cagagtgtg atgttatgaa 60
 ctntgattct ttttctgac cgaatgaagt gatatctaac atctatatgc ttggttctat 120
 caagatgaac ctgaccttg gccaaagcata taacactaag gctgtcacia tagatgttag 180
 caaattcttg attaatccg agatcattta tcagacctct tagccaaatt ccttcttttg 240
 caacttcagt aagagccata tattcagcct cagtagttga gagggaaaca gaaggttgaa 300
 gtgttgccct ccaactcacc aagcaaccac taagggtgta agcataccct gttaatgacc 360
 ttctcttgac caaatcagca gcaaaatcta catcagaata gccagtgaag cagcaatctg 420
 ggtgagatcc atagatcaaa cctacatctg tagtcccttt aagatatctg annaatctct 480
 tcac 484

<210> 12693
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12693

tgaacttaga gaatgttcaa agtggaaagg tatttgtcga acaatttgtt accagatatt 60
 ctcttgaac ttcatatat agccttttta ttcatatatt tgttgtgagt gagagttaat 120
 tcaatcaaaa ccttatgagt cttcattaaa tgcataaga cttctattat gattctctgat 180
 gcaatcctcc ctangaaggg attaatcacc agagccatga ataagaggct ccaagaggat 240
 tgggctagag ctgctgaaga aggccctang gttctcatga atcttangat agatttctga 300
 gccatgggc catgggttggg tcaacttacc ttgtacata ttagattang atttcattat 360
 ntttgggctt tgtatttagg gctccataat atangtaggg tattcctata aattangaat 420
 ttccagccct tgtatatt 437

<210> 12694
 <211> 388
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12694

gcttgtcaat cttttgagca aagacaacct ctaatgcgta attggatgca tcacacataa 60
 actcaaatgg ggctgtccaa tcacgtgcct gaatgatatg ggtggtagtc accgcacgct 120
 tgaggtaagc aaaagcctct ntgcacgggt catcaaaatc aaactccacc tgcttttgca 180
 gcatattgga tagtggaaaag gctattatgc taaaatcctt gataaagctc ctataaaacc 240
 ctgcatgacc tagaaaataa cgaacctctc acatgcaaca ggggtaacgg aatcgtgaaa 300
 taacatctaa ttaagcacgg gctacctcta tgcacctatt caaaatgata tgccttaaaa 360
 ctataccttc gtctaccatg aagtgaca 388

<210> 12695
 <211> 274
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12695

gctgtcaatc ttttgagcaa agacaacacc ttatgcgtaa gtggatgcat cacacataaa 60
 ctcaaatggg gctgtccaat cacgcgctg aatgatacgg gtggtagtc cgcacgctt 120
 gaggtaagca aaagcctctt tgcacgggtc atcaaaatca aactccacct gcttntgcag 180
 cagattggat agtggaaaagg ctattacgct taaatccttg ataaagctcc tatgaaaccc 240
 tgcatgacca agaaaataac gaacctctca catg 274

<210> 12696
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12696

gaactttgaa gttaattcta aatgatcaaa gtgaaaaaat gcacacacat ggcctctatt 60
 tatagcctaa gtgtcacaca aaattggagg gaaatttgaa tttctattca aatttcactt 120

gaatttgaaa ttgaatttgt ggaaccaa at tttggagcca aaatttcact aattatgatt 180
 agtgaattnt agctatggtt caatccacta atccaagatc aagccaaga ttctccacta 240
 cgtgtgctta ggtgtcatga gccatgtaaa gcatgaagga catgcacaaa gtgtgactat 300
 atgatgtgac agtgggggtgt agcaagcaaa tgctcacctn cccctctaaa aaattaatgg 360
 atttggattc tccaattca attaaattta tttccaaca tacacatgac atat 414

<210> 12697
 <211> 461
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12697

acattggaaa gttagtttac aagaaatata acaatcatta caaacaaggg ccaaacaaca 60
 cttctcatgg cagcagtgtc aacatgcact ntataaaata atcatattgn ggtcgtgcta 120
 ttttatgaca catacgtatt tgcacacata aaaattttgt gtgaaacatt ntacaacacc 180
 tatccatgta catatttttt tgacaaacct tttcaatgct acatcctata tatatacaca 240
 cattnntttg gaaggcttct tttgttacct actcaciaat acacatattt tgaanaacac 300
 ttttacgcta cccatccaac actttgtaag gcaattcatg ctatatatat tcatattatg 360
 caaggcattn tcatgctata tgtattcata tnttgcaagg gcattttatc aacattntgc 420
 aagcatttcc atgctatata tatattcaca tatatacata c 461

<210> 12698
 <211> 377
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12698

ctcagctntc catgaataag aaatctacac ctgttgcaag agtcgtggt ctatgttctc 60
 ctacagatca ccatacagat ctctatcctt ctttgacgca atctggaatc aataagcaac 120
 ctgaagctta tgctgcaaac atttataata gacatcctca gcagcaaaac aaacaatagt 180
 agaataatta tgacctttca agcaatagat acaatccaag ttggaggaat catccaatc 240
 tgagatggac aagtcctcca caacaacaag agcctgtccc tccttttcag aatgtacta 300

gtccaaccaa gccatatgtt cctctctcaa tacagcaaca gcaacaacaa cagtcacaa 360

aaagacaaca agcaact 377

<210> 12699
<211> 490
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12699

gataattgtt gtaactatgg ctgtggtctt tgtctattga tgaagatatt tattggagca 60
tttaatacat gtcactaact tgtcaactaa tatgataaaa caaattgctt atctttctat 120
ttttgcactt tcatatcttg tgtaagagga catataaact gttacgaacc aaattatatt 180
aactttttct tcatctttca tcatcttctc catattgtat agagaataaa acattcattc 240
tctatacaac aacatatcaa attctcaaag aattaaatat gtataaatgt tgagactcaa 300
caatcataaa ctntctttgt taattctctc taatgcacgt taagacacta aatttatatc 360
ttaacattnt tntacttaca tcaaaatgtt gatgggtctt aatttatgtt atgactcaat 420
actntatact acttannaca tanagaaaca catacacata ttaacatttt atagttaa 480
agctcattat 490

<210> 12700
<211> 462
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12700

actatgatgt tcttgaacta cctttagatc caacgggttc tcagatgaag aatcacagag 60
aaaggaagac taataaggct aaggctaaaa attgcctttt ctctactgtg tcaaaaatta 120
tttttacaag aattatgaat ttcaagtctg ccaaacagat ttgggattat ctacagatcag 180
aataatcaagg ctgtgaaaga accaaaggca tgcaagtact caacttgggc agagaattcg 240
agatgcagag catgaaagag actgaaacaa ttaaaggcta cgctgaccgg ctgttangca 300
tagcanatag agtgaggctt cttgggaagg actntcctga tgaaagaata gtgcanaaaa 360
tctgtgtcac tatacccgag aagtatgaat canagatatc agcattggag gagtctaaag 420

acctttcaac catcaccttg ggagaacctc ataatgctct ac

462

<210> 12701
<211> 477
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12701

ctcttgcttc actcaccgcc ttagacatct tagaactgat acatatgagc atttgtggtc 60
cttttccaac acctttttgg aatgagtaac aatattttat ctctgttcata gatgactact 120
ttagatacgg ttacctttat ttgatacatg agaagtctca atccctagac gtttttaaga 180
gtttcaaggc tgaagttgaa cttcaacttg aaaagaaaat taaggctgtc aaatctgacc 240
atggtgggtg gtactatggt agatatgatg gatcaggaga acaacgtcca tgaccttttg 300
cgctntttct canagagtgt agaattgttc cgcaatacac tatgccagga naacctagca 360
tgaatgggtg tgcagaacga tgaaaccgaa ctcttaagga tatggtgaga agtatgaata 420
gtcattcttc tttgccatag tcacttttgg gagaagcctt anataccgca gcttaca 477

<210> 12702
<211> 421
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12702

ggagacacat gaacagcgct aggcaacgac tttcatggcg ctccgaacaa aggtggagta 60
tgaggaggattg ccttgagggt ccgcacttag gcaatcatga aactaagctc caaactcgaa 120
agtgaggagc acatgaacaa ccctaagcaa taatattcat gtggctccga anaaggatga 180
gaatggagga ttgccttgag ggtcctctct tatgcaatca tggaacacag ctccaaactc 240
gaaaacggag gacacatgaa tgaaaccgca attcattcac gtggctccg aacaggatga 300
gaatggagga tngccttgag ggtcctctct tangcaatca tggaacacag ctccaatcat 360
ggaacacagc tccatactcg anaacggagg acacatgaat gacaacgcaa ttcattcacg 420
t 421

<210> 12703
 <211> 318
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12703

gacagcctca tgcacaacaa gccggttcgg cgactnttta cgttccagaa tcgcggtcga 60
 gaagtccttc ttccccgatn tctgcgcttt ccaaacaaaa actccaacat caaacaacc 120
 tcacagtcga acaagctcca tagtatagtg agcaaagaaa aagaanagaa caaaaagaat 180
 tgtgattcct gaaatgaaat caacgaaggt gcagagagtt gactcacggg tccgatgatt 240
 cgccttgctg tgacatcctt gctggaattg aagaagatga tgatcaaagt gaagaattca 300
 gaaagttcag aacctaag 318

<210> 12704
 <211> 441
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12704

cttcttctga ttgtaatggt gntttgtgca ttcactatgg ccacttctcg ccatgcaact 60
 ataccatcct ctgcatcact cacattacaa caaactgaag caaatgcttt gttgaagtgg 120
 aaaacaagcc ttgacaacca aagtcaggct ntgctatctt catggngtgg caatactcct 180
 tgcaattggc ttggaattgc ttgtgaccac accaaatccg tctccagcat aaatcttaca 240
 caggttgat taagcgggat gcttcaaaact ctcaattntt catcacttcc aaacatcctc 300
 actctagata tgagtaataa ctccctgaaa ggaagtatto ctcncaaata tanggtgttg 360
 caaaactcac tcatcttgat ttaagtgaca atcacttctc tggacaaatt catctgaaat 420
 aactcagtgg tcagcttcgt g 441

<210> 12705
 <211> 458
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12705

gagcgcgtctc gaggattcnc agcccagagg ttgttgcata gacattgtct ctgtttatag 60
 tccattttaa aaggcattat taatatcaa atggcacaga ggccacctat ttgtggggagc 120
 caaggtgagg ataacctgga tggtttctgg ttgaccaca gtagaaaaca tcttagtaaa 180
 atcaaaagtc aaaaatttga tgaaaaactt tggcttcgag gcattgccttg tagtgataaa 240
 caaaaccatt agcattttct ttatttcaat aaaccactt gcaacctata gcttgatat 300
 gaggaatgg tacacgcgcc caagttttct tgtgcagcan agaattatac tcattgtgta 360
 catggcagca tgccattgag gatcccgcaa ggcaagntg ncaactcttg gacatgaata 420
 aagaatatac gagagatgcg acagggaatg atacccta 458

<210> 12706
 <211> 403
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12706

cataagcact tagactatga aggaaagctg gagttgctgc acatgatgtc caacgttatg 60
 tcaaagaata agatcgggct gcacaatgca caaggcaaga taaagtgtca aatgaagaat 120
 tgaagtgca ggattcacga tgtcggatat aatgtccagg acatcctgcc tgaaaatact 180
 ggaattgcta aaagcattga agctgcagga tccacgatgt cggatacaat gtccaggaca 240
 tctgccccga aaatactgga gttgctaaca gcattgaagt tgcaggatcc acgatgtcgg 300
 atacgatgtc caggacatct tgcccganaa tactggacat ataaatctgt tatatctgta 360
 acagattatt gtgcagttag caagagatta gatgatctat ctt 403

<210> 12707
 <211> 433
 <212> DNA
 <213> Glycine max

<400> 12707
 atcttcgaac tgtcatcgct tcattctcgt ggcgatagat tatttcacca aatgggtcga 60
 agcggcttct tataccaatg tcacaggaa tgtggtggtc agattcataa agaaggaaact 120
 gatttgctga tacggactcc cttaggaagat cattactaac aatggcacta atctaataa 180
 caaaatgatg caggaaatgt gcagggattt caagatccag catcataact ccaccccta 240

tcggccaaag atgaacggag ctgtagaggc agcaataaaa aatattaaga agattattca 300
gaagatgaca gtgtcataca aagattggca tgagatgctg ccttttgccc tgcattggata 360
tcgaacctcg gtacgaactt ctactggggc aacgctgtat tccttgggtt atgggatgga 420
agtgggtactc tta 433

<210> 12708
<211> 461
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12708

tcattgaagtg tataatatgg atcactntca attctatata naagattaat attaattgtg 60
ttctaaatta atatacacia ttataaaagc aagaatttct ctttgtttat cttcttaatt 120
atatatttta taattttctg ttttttcttt aaatagacat ttatagtagc attagtataa 180
aatttctctc tcaactttct caaactacta ttatgttact ttatctatat atttatattc 240
ttaatcacca atctcttata tccattntt tttatcacaa tgtgtgaaat gaactttgat 300
aaaaataaat aaatatcaat aattaanaaa ttatataaaa atataaatta tctactttga 360
tttcaaaata tantttatat attanaaaac gtttatntat cataaatatt aattatataa 420
caacaaacat ttattacatg tcattcacaa gttaaactac t 461

<210> 12709
<211> 450
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12709

cactatacaa gatntcttnt gcctcctagc ctctcatca acctcactag caatcaagac 60
tccatgtagc agctgtcgac ccttaacaaa tgetgactgt ctttcatcaa caagatgac 120
cagaacctta ctagccctat tagataggat tntggcaata atcttgtaaa cacatcctat 180
gagagatata ggtctgaagt gactaatagt ttgaggatcc ttgatcttag gaataagagc 240
aatgaatgaa gaattgaggc ccttangana agcagcattc acatgaaatt ctgctagaaa 300
tcttaagaaa tcacgtttca gctctttcca naactgcttg ataaatctaa nattcagccc 360

atcagggccct gngctnttgt cattgccaca agcncacaca gcagaatata tctcctctc 420
 tntanatggc tccaccatca nateccctctg 450

<210> 12710
 <211> 501
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12710

aagcttatga acactaatgt anaaatagaa agcttttttg aaacacgtaa ttaatatant 60
 ttttgtatta caattntatg tatattcgat ctctttgtta tcttctgggt gtnttatctt 120
 cctttgggta ttgtctgtaa gtctctaag tgctgtttta ctggaatgca tagatctaaa 180
 catgctgagc taactttgag aacacaaata cgaattagtt aaaaaattac atattcgttt 240
 ctagttaaaa ttatttttta tgtatgcgtt gaaatgactc gttataactca tttctgttta 300
 aaaaaatatt tttttgaac anaataacta aaaatattta atataaatta aactttaaat 360
 aatctttgtc acatgaaaag agatgtttcg ataaattatt tatgccatta atattntaga 420
 atatataaat attataattc tatatgagat taatacatga atatttacga aaaatatcta 480
 tgtagactaa atatatatatt a 501

<210> 12711
 <211> 513
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12711

ctatcatact cagcttccca ttcaatgtca agcgtctcga tatattatgg gactcaatca 60
 gacatccgag taanaagtta ttgtcgtttg aattggctcg gagcttcaac attcaatttc 120
 gagggctctg atatattacg ggactcaatc cgacatccga gaaaaaaatt attgtcgttt 180
 gaattggctc agaggttcaa cattcaattt tgagcgtctc gatatgttac gggactcaat 240
 cagacatccg agtaaaaagc tattgtcatt tgaatttgct cagagattca acattcaatt 300
 tcgaggggtc cgatatatta cgggactcaa tcagacatcc gagtaaatag ttattgtcgt 360
 ttgaattggc tcagagggtc aacattcaat ttcgagcgtc tcgatatatt acgggactca 420

atcagacatc cgagtaaaaa gttattgtcg ttngaattgg ctcagagcat caacattcaa 480

tttcgagcgt ctcgatatat tacgggactc aat 513

<210> 12712
<211> 388
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12712

gattccttaag cactcgtctg tgcagcttta ctcggatgtc tgattgcgtc ccgtatcata 60

tcgagacgct cgaaattgaa tgtaaatgct ctgagctaata tcaaacgaca ataactttnt 120

actcggaagt ctgattgagt cccgtaacat atcgagacgc tcgaaattga atgttgaagc 180

tctgagctaa ttcaaacgac aataactttt tactcggaatg cctgattgag tcccgtaaca 240

tatcgagacg ctcgaaattg aatgtngaag ctctcagcca attaaaacga caataacttt 300

ntactcggaat gtctgattga gtctcgaaat ataaccagac actcgaaatt gaattgtgaa 360

cctctgagcc aattcatacg acaataac 388

<210> 12713
<211> 513
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12713

cttccttata ataggctgcc atacaatcct gcttttagag ctcaccccta ctagaattcc 60

aagataagag aagggaatt ccagttgact acagttaaga gaaagagttg catccctaca 120

ccagccttca gatttaccca ggcacccgaa ttggctntta ttgtaattta tettaagacc 180

agaaaccaac tcanagcatc tcagaatata tcttanaact ctaacattat cattagtggc 240

aaccccaaag aacaaggtat catcttcata ttgtagtata ttaacttcct cttnttgcc 300

tcccacttga tagctgttga agagattctt agctacagct gacctcatca acccagtaag 360

gccttcact actatattga agagcanagg tgcaagggga tcacctgtc ttanacctct 420

cttanggaca aattccttag aaggacttcc attaatnaa atggatattg ttgctgtaga 480

catacacaac catttatcca tntctccat ctt 513

<210> 12714
 <211> 440
 <212> DNA
 <213> Glycine max

<400> 12714

```

ttgatgccat ctaggacctg atcgagatcc actattcacc attagtttct agagagaact   60
attccgggttg agtgggatcca aactccggat gaacacctct taccaccttc agacagagat  120
cctcaatcgt accctagaat aatacttgcg tgctttcgtt catgacagac catctcaatg  180
gttcaagttt ttatcaatag cggagtgate atacaacacc gcaaccatt cgggcactcg  240
gttttccccg ttttaaggta ttttcggcaa gccccacct tctatccac aatacttgca  300
aggttcttct ctggtggatg cagtggaaca tcttccatca actctcgagg ccattcatgc  360
cactctgcag tgcagattac ttatagtga ggcagccatg aacgccacca ttgacagtca  420
ccgtcgcgat gtccaattct                                     440
  
```

<210> 12715
 <211> 452
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12715

```

aggatcatcg atgcgaggga ttagtcgcaa gtntgagaat atgatttaag agactttcag   60
gtgaaagaga ggagaaatat aaagaatata cgcgaaatgt ttgaaagatt cttctatcaa  120
gaagagaatt tcaatttctc actttttaga aggaaattga aattccacat tnttagttgt  180
ttaaaattat gttttaaata tccaaaattt aaattcttca taacaaaaca tccaaacaat  240
gaattgtaga ttatagaaat ttaaattctc tgataaataa ctttccacaa ttaaaattct  300
ttatccaaag gtactctaag gcttactata aaccttcta tgtatgtnga actcactagg  360
cttgntacc acacttttag aagtccaata ttcacttagg atcaaaattt catacaacaa  420
ttcaatcacc aatactaata ttcacaatag ac                                     452
  
```

<210> 12716
 <211> 446
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12716

```
ctgagtagcc atctgttctg tccgatntgt cagactctga atggaggctc ttgtctcttg 60
ctgaaattgc atattctgga tggtcatttt cctcattaac tctcttaagg aaggttgaga 120
agagtcttca gctgcttggt gtctatgttg ttgctactgc tgcgtctgca ttgcaggagg 180
aacatatggc ctgcttggac cagtagcatt ctggaaggga gggacaggct gttgttgtgt 240
ttgttgttgt tgtagaggat ttgcccattc caaatttggg tgattcctcc aacctggatt 300
gtatctgttg ctgaaagat cattaattat tctgctgttg tgttttgctg ctgaggnggt 360
ctattataaa tgtttgcagc atangcttca ngttgctcat tgactccaga ttgctgcana 420
gaaggataga gatctgtatg gtgatac 446
```

<210> 12717

<211> 257

<212> DNA

<213> Glycine max

<400> 12717

```
gatcaccacc ctgaatttc acgtcttttc ttcttttctc ctgaatactc ttctgcctac 60
tctgaatagg tcttattctc tcttgatta acttgacctt cttaagtggg tgttgtacca 120
ctttacgtcc taaagtgatg ttgtcttcag gttctagcca acacaagaat gttctacatc 180
ttctatcata caaggettaa taaggagcca ttcccatggg agaataaaaa ctattgttat 240
agctaaactc tatcaat 257
```

<210> 12718

<211> 378

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12718

```
tgagattaac aatggaagca ctgagatat tcanatgggc ataacttacc acacggagggt 60
ctgattcagg cgcataatat atcgagacgc tcgaaattga acaacgaatg ctctcgagaa 120
attcaattgg tcataacttg tcacacggaa gtccaattct ggcgcatacac atatcgagac 180
```

gctgtaaatt gaacaccgga agctctcgag aaattcatat ggtcataact tatcacacag 240
 aggtttgata taggcgcata atatatcgag acgctcgaaa ttgaacaacg aatgctctcg 300
 agaaattcan atggtcataa cttatcacac ggaggtctga ttcacgcgca taatatatcg 360
 agacgctcga aattgaac 378

<210> 12719
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12719

gcttcgcgat attatttgcg ccttaatcgg tcttncattn ngaaagttat gaccatttga 60
 atttctcgag agctttcggtt gttcattttc aagcttctcg atatagtatg cgccctgaatc 120
 ggacttccac ttgaaaagtt atgaccattt gaatttctcg agagcttcg ttgctcaatt 180
 tcgagcgtct caatatatta tgcgcctgaa tcggactttc gtgtgtcaag ttatgactat 240
 ttgaatttct tgagagcttt cgttgttcaa ttctgagcgt ctccggtatat tatgcgctgg 300
 aattggactt ccatatganc aagtttgacc atttgaatnt ctccgagagct tccgtgaccg 360
 ttccaggttt aaataagaag aatcaccgga cgacgccgat cgaacatttc ctaatagaca 420
 tcgtccaaat attatcgggg 440

<210> 12720
 <211> 495
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12720

agagagagaa aagatacatg tgaagtctaa ttaaatagaa tctagcaagc aacagataat 60
 tccaaacaca aaattcaaca aaatgataac tattggagtt tccagtgggtg gcaggcgaaa 120
 aagaagttaa ttagtgacga gaatactacg atccatctat tccttaccac gtcgagcaag 180
 ccggttgacc caacgagggg ttgactttcc ggtcaatttg agacaaacat cgttacagaa 240
 atggttgcaa ttcttggaag tgagatggta ggtattgcca gaataatctt gagctagctt 300
 ctccatgaat gctcgaaat ccttggcacc cagatctgtt gttccgatga anattgactn 360

tctgaaggtg aaccagggc agtgtttcgg ttgaacttg anaatccccg ttgtgtcgtg 420
 ctgttcgca ccanatccat attccagccc atgaactana gaagaaaaga aaaattta 480
 ttaataatta tcaac 495

<210> 12721
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12721

atcttgtgtc acgtctctt canagctata ccctatgtgt taataactca agaaatagtt 60
 catcaaagtc ataagaagaa gaaaggggaac aaagggtttg tcatgttcaa aattgattnt 120
 gaaaaagctt atgataaagt agattgaaaa tgtctgagaa tcacctttag tgattntgga 180
 ctccccaaa agattattga cattatcatg aattgcacct tctccacgac ttgtctatg 240
 aaatggaatg gagaanagct taatatTTTT aagccttaga ggtgtcttag atagggggac 300
 cccgtgtttc cttatttgtt tgttctttgc atggaanagc tgtcattgct tattcaatga 360
 aagtgcanga gaaaagttgg ttgccatta taatttttca ccattggtcct agtattttctc 420
 atcttttcta tgt 433

<210> 12722
 <211> 499
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12722

tcctcgaagc catctcctgc gatgacaaca ttggaaagtt attttacaag aaatatacca 60
 atcattacaa acaagagcca aacaacactt catatggcgc gagtgtcaac atgcacttta 120
 taaaataatc atattgnggc cgtgctattt tataacacat atgcatttgc acacataana 180
 atttggtgaa aggcatttta cgacacacat ccattgtacat attttttgac aaaccttttc 240
 atgctacatc ctatatatat acacacattt ttntttggaa ggcttctttt gctacctact 300
 cacaataca tcacaaatac atatgntttg aaaaacactt ttacgtacc catccaaaca 360
 ctntgtaagg cacttcatgc tatatatatt catattatgc aaggcatntt catgcgatat 420

atattcatat tntgcaaggg catttattca acatntcgca aggcgtntca tgctacatat 480
 ntacatacat acatattat 499

<210> 12723
 <211> 466
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12723

tctatagaag gttcgttctt aattttctta caattgcac accctctcaat gagctgggtga 60
 agaagaatgt ggaatttacc tngngtgaan aacaagagca agcctttgct ntgctcaaag 120
 aanagcttac taaggcacct gttctagctc ttctgactt ttctaaaact ttgagctag 180
 aatgtgatgc ctctggagtg ggagttggag ctgtattgtt acaagtgagg caccctattg 240
 cttatttttag tgaanaactt catagtgcc cctcaacta cccacctat gataaagagc 300
 tttatgcctt aataagagcc ctccatactt gtgaacatta ccttgtttcc aaggaatttg 360
 tcattcatag tgatcatcaa tcacttaagt acattagagg gcaaagcacg ttanacaaga 420
 ggcatgcaaa atgggtagag tacctagagc catntccata tgttat 466

<210> 12724
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12724

ctgaaggaga actngatgcc ttggtoaacc tagtaactca gctttccatg aatcaganat 60
 ctacaccctg tgcaagagta tgtggtctat gttcttctgc agatcaccat acagatcttt 120
 gtccttcttt tgtccttctt tgcagcaatc tggagtcaat gagcaacctg aagcttatgt 180
 tgcaaacatt tataatagac ctcccttagca gcaaaaccaa caacagcaga ataattatga 240
 cctttcaagc aatagataca atccaggttg gaggaatcat ccaaacttga gatggataag 300
 tctccataa caacaacagc ttgtccctcc ttccagaat gatgttggtc caagcaagcc 360
 atatattctt cctccaatgc agcaacagca gcagcaacaa cagtcacaac 410

<210> 12725

<211> 435
 <212> DNA
 <213> Glycine max

<400> 12725

taattcttacc tctctgagat aataagctag agcttagcta cacacacccc actaatagtt 60
 aagctcacct ccatgctcaa atacatgaaa ataccaaaaa gtctctacta tatagactac 120
 tcacaatgcc cttaaatata aggctaaaaac cctatactac tagaatggcc aaaatacaag 180
 gcccaaaaga aggaagacct attctaatat ttacaaagac aagtggaccc aaccttgacc 240
 catgggctca caaatctacc ctgagggttca tgagaatcct atggccttct tcaacagctc 300
 tateccaatc ctcttgagc ctctactta tggctctagt gattgggtccc ttectaagga 360
 ggattgcac atcctcttcc ccttgaagag gatttgacct caaatctgtt ggtgtctcct 420
 cctcatcacc agctc 435

<210> 12726
 <211> 370
 <212> DNA
 <213> Glycine max

<400> 12726

tcttatccaa ggcacattct tgggtggtgat tctccttctt ccatggctta ttccctagt 60
 gatggcacct cctctcacat cttctccttt gtcttcctgt gcatctccat ggtggaaaat 120
 caccattgaa ggacctcact gaagctcaaa gatccagcct ccatagaagc tccaaaagca 180
 aacttcattc aagtggatc acgagcctac cccccaaggg cattggatag aagactccaa 240
 gaagattatg ccagagatgc aagagaaggc cctaagggtc tcatgagcct tacggtagat 300
 ttggggccca tgggctaagt atgagccac ttatctttgt acatattaga ttaagatttc 360
 attatttttg 370

<210> 12727
 <211> 261
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12727

atgccttggt ttacctggta acccaactgg ccatgaataa aaaatctgta cttgtcgcca 60

gactctgtgg tttatgctcc tctgccgacc accacacgaa cctttgcct tctatgcaac 120
aatctgaagc aaatgaacag cctgaagctt atgctgcaaa catctacaac agacctcttc 140
aacctcaaca gcaaaatcag ccgcaacana acaattatga cctctccggc tacagggtaca 240
atctcgggtg gaggaatcat c 261

<210> 12728
<211> 369
<212> DNA
<213> Glycine max

<400> 12728

agctatacta tgcagagaat atccaataat tataccttca tctgacttag catcaaattt 60
tcctaagtta tcttttccat tattcaatac aaaaacattt acaaccaaag atatgaagat 120
gtgagatggt tggttttctg ccattgaaca attcatatgg agttttcttt aaaatgggtc 180
ttattaaagc cttatttaaa atgtagcatg tagtgtaaac ggcttcagcc caaaagtatt 240
ttggaagagg agtatcattt aataaagttc tagcaatctc ttccaaagat ctatttttcc 300
ttttaacaac accattttgt tgaggggttc ttggtgcaga aaagttatgc tcaatctcat 360
gcttatcac 369

<210> 12729
<211> 359
<212> DNA
<213> Glycine max

<400> 12729

ttgtcttatt gaattgatgt tatgtttggt aatttggtat ccatgataat tgagctatgc 60
aatcttattt gttgctcctt ttttttggtt cattggcata tggcacattg ttgttgctca 120
tacttttctg tctctaaatg ccattgatgt tgtttcgaga ccccggtgag tcagagactt 180
tccggccatt agacatgcac catgggatgg aagttcgctt tgggtctatct aagggaccag 240
tgtaccaag tattatataa ttaaatttga ctgttattct agtaccagaa aacagtattt 300
tgtgatcgaa gcttcttggt attcattaaa atggaagtgt ccgaggattc tccatatgt 359

<210> 12730
<211> 302

<212> DNA
<213> Glycine max

<400> 12730

tctcgatata ttatgcgcct gaatcggact tccgtttgaa aagttattac catttgaatt 60
tctcgagagc tttgggtttt caatttcgag cgtctcgata tattaagcac ctgaatggga 120
ctgcgggggg acaggatatga ccccttgaat ttctcagaag ctcccgtggt tcattttcca 180
cttttcgtat tatatggccc ctgattcgaa ctccggggg aaagggtatg accattggaa 240
tttctcgaga gcttccgatg ttcgatttcg agcgtctcga tatattatgc gcttgaatcg 300
ga 302

<210> 12731
<211> 323
<212> DNA
<213> Glycine max

<400> 12731

agcttctcga atattatgcg cctgattcag acttccgtta caaaagttat gaccatatga 60
atttctcgag agccttcgtt gttcaatttc gagegtcttg atatagtatg cgccctgaatc 120
ggacttccgt gtgataagtt atgaccattt gaatttgctg agagcttccg attttcaatt 180
tagagcttct cgatatatta tgaacctgaa tcggacttcc gtgtgacaag ttatgaccat 240
ttgaatacct agatagcatt cgttgttcaa tttcgagcgt gtggatatat tatgcgcctg 300
aatcagactt tcgtgtgaca agt 323

<210> 12732
<211> 381
<212> DNA
<213> Glycine max

<400> 12732

agcttccctt tctttggcca atgctgtact tgtttggcag tgatttcctt ggcaatttga 60
tgctcaaaaa cagcaatatc tatcactcca tcagtaggtc tgcccagata cttgttaatc 120
acagcagggg agaatttaac acactttcct ctgacaaaca ccttttgata ctcatcactt 180
tttctgttac atatgtcaga ggaatgttg acaatgaatt ccttgactaa gccttcatag 240
caatctccca acttgctgac agtcttcagc agtcacagc ccttgatgag gtccatgac 300

tccttgcaat ccaaggcacc tcttccagc tctctctcaa ccgcaagtct gcgttgatac 360
 acatatttcc acttttcaac a 381

<210> 12733
 <211> 421
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12733

ttaagtcacc tgcngcatgc agcacatggt aagaactagt tgtgttatct tctctttatc 60
 attcattctg ggggttaagaa atggaaggga tttaagaagc atcaaccttt tgccttctggg 120
 aatttgatgt gctctgaaat cccatcaata ttagtgtaat actttatagt tagccatttt 180
 tttcttttta aattttaaag aaagcgtgat tgacttggtg ctgggtttttg atgggtgagct 240
 gacatttaat gtgcttgcca tcatgcagat atattgtatg attcatggtc tccggcgatg 300
 acagctagtt ctatctgcac caatattctc tcaatgcttt cacgctcaac cacaaagggt 360
 gtgaaatttt ttaccatgaa tcatgcattt tcttaatact tttgcgctat gatgggatac 420
 t 421

<210> 12734
 <211> 362
 <212> DNA
 <213> Glycine max
 <400> 12734

tgcacgaaat tgatcaaaac ctgaatccca gtctctaat gtgtcatctc tcaatagatt 60
 atccgatgat tcgctgcgga tatgagcatt ccaagatggt atagggggtt gatttgcacc 120
 tttactgtgg ttcttctctt gacgcggtaa gaaccgggca atttcacctg ctaaactctt 180
 catagaatcc acaacatcct ggatgggtaa ttcaccgagc ttttccaacc agatttcaca 240
 ggtggcatat attggaggac catacattct taggagtggg cgttgggggtc tctttttctt 300
 gcctggcttt tgtttaagag aaacacattt gtgcagccat ccatttatgg cctccagata 360
 ga 362

<210> 12735

<211> 344
 <212> DNA
 <213> Glycine max

<400> 12735

tatagaccat attgagataa aagagtgcc ccttatgtgc tgtgtaatgg ttagggaggg 60
 caccacaagt ggctcccttg gtaaagcgat atactactac caggatggca atatatccct 120
 atgaagaagg gaggccagta atgaaatcca gtgatagatc ttgccacaga gaagttgtaa 180
 tgggcaatgg ttagagtaag cccgcaagtc tcttagtctc atattttact tgttggcaag 240
 tgggtgcacag gcatatgaat tgtttgacat tcgcacgcat attggcccag tagaatttct 300
 tatgcactcg atgaagggtt cttggcaaag ttaaatagact acca 344

<210> 12736
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12736

cagcttgnta aatggtacaa gcttttttta ttaattatat aagatatctt tattcaaaag 60
 tttgttgaat atctgtgtca tgcgcttaat tagcgcttga tatttcaaag gtaaggaaag 120
 cattaaaagg cttctataga ttgaaaatat ttgaatttaa tttcttaaaa tttcaaaacg 180
 aatcgatatg gttgcaagaa aaaattgatt aaatctattg tataattgaa cgagcacgctc 240
 aaatacttaa aaactgttaa ataaaaatc aaacgtgcta gtcacactca ctaacatgaa 300
 aaaatatatc ctgatcttga gacattcact aaacagaaat ttaaaatata tgattctcta 360
 taatatactt aatcagtatg tacatttttt taatat 396

<210> 12737
 <211> 366
 <212> DNA
 <213> Glycine max

<400> 12737

tcttatccaa ggcaattctt ggtgggtgatt ctcttcttc cttggcttat tccttagtgg 60
 atggtgcctc ccctctcttc ttctccttgg ccttcaactg catctccatg gtccatagaa 120
 gcttcacaag aaagcttcca tcaactaccg ggaaggggag tatgctgatg aaatcttctc 180

ataaccacaa atgagatttt ggatgttagc gtttcgtttc taaatgacca tttagaggaa 240
 acactggggt caacaaaaat agaagaaaat cactcaaagt gtattaatct cacacgggta 300
 agtgtttcat cctaattccg aaccatagat atgccatgac ttgatcttgc aaatcatttc 360
 ctatca 366

<210> 12738
 <211> 398
 <212> DNA
 <213> Glycine max

<400> 12738
 ctcgagagct agcgttggtc aattacgagt gcctgtatat tgatgcgcct gaatcggaca 60
 ttcgagtga aagttagtac catttgaatt tctcgagagc ctccctatgt taatttcgag 120
 cgtctcgata tattatacgc ctgaatcgaa cctcagtgtc aaaagttag accatttgaa 180
 tttctttaga gcatccgatg ctcatcttcg agcgtctcta tatgtgatga accttaatcg 240
 gacctccgtg tgaaaagtta tgaccatttg aatttctcga gagcttccgt tgttcaattt 300
 cgagcgtctc gacatattat gcgccgaat cggacatccg tgggaaaagc tatgaccatt 360
 cgaatttctc gagagcttcc gttgttcaat ttcgagcg 398

<210> 12739
 <211> 362
 <212> DNA
 <213> Glycine max

<400> 12739
 tgtaacacat tacagctcaa attgcggatt gatggtgatc agaatcagaa tctgcctgat 60
 cccaaagata tcaaatgctt ggaaaggata ggcagtgtaa atgttgaagc tgattccatc 120
 tacgaacttt acaaggatcc cagccctata atggaacctg gttctgtttg gaaagacatt 180
 gttctttcac cttaaggta taataatgat cagaaggaat tgaaggaatt cattcagaaa 240
 atagaaacat ccacagaaa acggtaacca ttgatattgc tgcgatgat tttcctccca 300
 aagccaagtt ttggagtatc taacaaagtt tgagttacca agttttgtat ctgctattcc 360
 ct 362

<210> 12740
 <211> 365
 <212> DNA
 <213> Glycine max

<400> 12740

tataacaaga atattttggc ctttttcaca gcttgatggt cgcgtcaaaa ctttgcaccc 60
 taacatacat gggggtatcc tggctcgaag ggacaaaaa catcatatcg aagccctcag 120
 tactcatggg attggttaagt tatgttatta gctgttatta caagtacgtt gtgctagaaa 180
 ttgtttgtgt tacattagag ttgtgatcat tcagtttgtg agattgtatt tttttgcttt 240
 tgcttaaagt tttccttttc aggtactttt gatgttgtgg tgggtgaacct gtaccatttt 300
 tacgataaag tcacatcagc tgggggcatt gaatttgagg atggaattga aaatgttgac 360
 attgg 365

<210> 12741
 <211> 365
 <212> DNA
 <213> Glycine max

<400> 12741

tgaattgaa caacggaagc tctcgagaat aaaaaatggt cataacttat cacacggagc 60
 tgcgattcag gcgcataaaa tatcgagacg ctcgaaattg aacaacgaat gctcttgaga 120
 aattcaaat gtcataactt gtcacacgga tgctcgatc agctacataa tatatccaga 180
 cggtcgaaat tgaacatcgg aagctctcga caaattccaa tggtcataac ttttcacaag 240
 gaagcccgat tctagcgcat caggtatcga gatgctctga attgaaaacc ggaagctctc 300
 aagaaattca aatgggtcata acttgtcaca cggaagtccg attcgaacgc ataatatatc 360
 aagat 365

<210> 12742
 <211> 282
 <212> DNA
 <213> Glycine max

<400> 12742

ataacttatg acacagaagt ccgattcacg cgcctaatat attcgagacg ctcgaaattg 60
 aacaacgaaa gctctcgaga aaatcaagtg gtcataactt ttcaaacgga agtccgattc 120

agggtgcataa tatatcgaga cgctcgagat tgaacaacgg aagctctcga gaaattcaaa 180
 tggtcataac ttatcacatg gaagtcgat taaggcgcat aatatacga gacgctcgaa 240
 attgaacaac ggacgctctc aagaaattcc aatgggcata ac 282

<210> 12743
 <211> 367
 <212> DNA
 <213> Glycine max

<400> 12743
 tcttggcaat cctcattcca gcgatcagtc tagtttttgc gtaagagctt gaacaatggc 60
 tcacaaatgg cggtgagctg cgatatgaat ctggcaatat aattcaagcg tcccaggaaa 120
 cctcggactt gctctctgt acgggggttct ggcactctca ggatagcctt caccttttctg 180
 ggggtctacct ctatcccttt ctggcttaca atgaaaccaa gtaatttccc tgatttgacc 240
 ccaaaggtag acttagcggg gttcaacctt aattgatatt tcttaagcct ttcgaacaac 300
 ttccgcaggt tgacaagggtg ttcttctctg gatttagatt tagcaattat gtcgtccacg 360
 tagacct 367

<210> 12744
 <211> 271
 <212> DNA
 <213> Glycine max

<400> 12744
 attaacaact tccgtttgcc catcggtttg tgggtgacaa gtggttgaaa ataacaattt 60
 aatggccaac ttgctccaca aagtcctaca aaaatggctt atgaacttag agtccctatc 120
 actaacaatg ctcttggca aaccatggag tctcacaatc tccttgaaaa acagatcagt 180
 ctcatgggaa gcataatcaa cttttttact tgggataaaa tgagccatta tataaaacct 240
 atcaacaacc actaaaatgg aatctctacc a 271

<210> 12745
 <211> 402
 <212> DNA
 <213> Glycine max

<400> 12745

tacattcaat ttcgagcttt tctatatatt acgggactca atcggacatc cgagtaaaaa 60
 gttattgtag tttgaatttg ctcaaggctt cggatttcca tttcgagcgt ctcgatatat 120
 tacgggactc aatcggacat cagagtaaaa agttattgtt gtttgaattt gctcagagct 180
 tctgtattcc atttcgagca tctcgatata ttacgggact caatcagaca tccgagtaaa 240
 aagttattgt agtttcaatt tgctcagggc ttcgggtattc catttcgagc gtctcagatg 300
 attacgggac tcaatcagac atccgagtaa aaagttattg tcgattgaat ttgctcagag 360
 cttctacatt caatttcgag cttttcgata tattacggga ct 402

<210> 12746
 <211> 361
 <212> DNA
 <213> Glycine max

<400> 12746
 tcgcacttga taatggagac acatgaactg cgcttagcaa tgacattcat ggtgctccga 60
 ataaaggtag agtatggagg attgccttga gggtcctctc ttatgcaatc atggaacaca 120
 gctccaaact cgaaagtga ggacacatga acaaccctaa gcaataacat tcattgtggct 180
 ctggaacagg atgagaatgg aggattgcct tgagggtcct ctcttatgca atcatggaac 240
 acagctccaa actcgaaagt ggaggacaca tgaacagccc taagcaataa cattcatgtg 300
 gctccggaac cggatgagaa tggaggattg ccttcaaggt cctctcttat gcaatcatgg 360
 a 361

<210> 12747
 <211> 373
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12747

atgttcataa attgtgtaaa aagttgtatg aaaaagttat tgaaatgcac gttaaagtct 60
 tgcttttata gactcttcat gtctggtcaa gaaaaccatt ggaagagtta catcttctga 120
 tttttattca aaacttgctc ctggtaatcg attacaaaa ccatgtaatc gattacacaa 180
 agcattttat gaaaggatgt gactcttcac aattgatttt gaatttcaac gttcagatac 240

actggtaatt gattaccaat atcttgtcat cgattacacc attttgaaat caattggaac 300
 gttgtaaatt cagttaanag cttttgaaat caaactttgc cactggtaat agaatacagg 360
 aaactggtaa tcg 373

<210> 12748
 <211> 359
 <212> DNA
 <213> Glycine max

<400> 12748

tggcagtaat ttgaattctg atatgttctc tctcctttga tacagatgag tgaagggaat 60
 tcaggatggg aggatattgat ttttattcca ccaggaaaaa gtcgctctca acacatacaa 120
 gaacttaatg aatgattccc aggggtgcgaa ttttaagctaa ccatgatttc atgtggtttt 180
 cttgagcaaa ttggatgtta ctgttgtgac aatttagtcg gctgggtgaga tgctaggacc 240
 tctgtcttca aatagttgtg ctcttcttcc tgaggcgaat actgcactaa gattctcagt 300
 ggatataagg taaatgtgta tgtgagagga cgtaaacgct aacatacatt tcaattaag 359

<210> 12749
 <211> 358
 <212> DNA
 <213> Glycine max

<400> 12749

tgagaatgga gaattgcact aatcaatctc tacgcatagc tccaaactcg aagggtggagg 60
 acacatgaac gaaaacacaa ttcattggggc tccgaaaaag ggggttgagaa tggagaatta 120
 cactaagcaa tcactacgca tagctccaaa ctccaagggtg gaggacacat gaaagataac 180
 gcaattcatg gggctccgaa aagattgaga atggagaatt gcactacgca atcactacgc 240
 atagctccaa acgcgaagggt ggaggacaca tgaatgaaaa cgcaattcat ggggctccga 300
 aaagattgag aatggagaat tgcactaagc aatcactacg catagctcca aactcaaa 358

<210> 12750
 <211> 360
 <212> DNA
 <213> Glycine max

<400> 12750

tcaattggag tcttgtcttt tacaaactta gttggacatc tgttgagtat gtaaacagca 60
 gtgtagactg cttcagccca gaatgtgta ggtagtcctt tctccttgag catctctagc 120
 catctccata actatgtgat tctttctctc ggacactcca ttttgttgag gagaatatac 180
 gactgtaagt tgtcgttaa tgccttcac cttacaaaat ctttcaaact cgcgagaggt 240
 gtactctttg tcgcgatcac ttcttaatac ttttatccgt tttccacttt gattttcagg 300
 aagggccttg aactttttga atactccaaa gacttctgat ttttctttta gaaaatatac 360

<210> 12751
 <211> 408
 <212> DNA
 <213> Glycine max

<400> 12751
 agcttcccc ttgttcatta ttttttttaa caaaaacata attgtgttgt gtattttact 60
 caaggaaaat atgttctatt gtgttgaaat tttaagattt ttaattaatt atgcacatta 120
 tctttatatt aatcaaatta attgagatat aattttattt ttaaaattaa aattaaatac 180
 attagatcta aggtaccatt tataagatta attaccttaa ttattacatg aattgtctgt 240
 attaatagta atcaaatatt tttttttgac aaaataatac aattaattat gatactcatt 300
 attttcataa ttaatttgag tataattaag aatgataatt ttccgcatca ttaattcaaa 360
 cataaattac acaagggtgac gtgtgagggg gacgttattt aattaaaa 408

<210> 12752
 <211> 367
 <212> DNA
 <213> Glycine max

<400> 12752
 tagatggaga agaagacaga gagaaggaga agacttctcg aaggagacga aacataccta 60
 ggtattgtgg cgaaggagaa gaagcagaga cttgtgacga tgctcgagtg cgacgaagac 120
 gatgctcgag cttagacaaa acgatggatc gatggagaac agacagcttc aaggatcatg 180
 gagaacaaag agagcaagaa agcttagatg gagaagaaga catcgagaag gagaagacaa 240
 cgcaaggag acgaaacata cctaggtatg gtggcgaagg agaagaagca gagacttgtg 300
 acgatgctcg agtgcgacaa acacgatgct catatgcaga tagggacctt gaaggtagac 360

<210> 12753
 <211> 398
 <212> DNA
 <213> Glycine max

<400> 12753

gcttggtatt ccttttacta tgtaatttat ccttcttaag atggatccaa acccagtcac 60
 cytcattaag aactagcttt tttcttcttc tattgccttt agttgaatac acctttgttt 120
 ggttctctat ttggttctta accctctcat gcaaattctt tacaacctat gacctaaatt 180
 gcccttcttt atgtataaaa gaagggtcca gtgggagggg aatgaggtct aacggtgtta 240
 ggggattgaa cccatagaca acctcaaaag gggattgctt ggtggttcta tgaaccccc 300
 tyttgtaggg aaattctaca tgaggaagat actcctcttc agacttatgg ttacctttca 360
 gaagagccct taaagggtgg ataaagacct attcacta 398

<210> 12754
 <211> 326
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12754

gcaagcttgg atntcccttt actatggaat ctatccttcc taagatggat ccacaccag 60
 tcaccgtcat taagaactag cttttttctt cctctattgc ctttaggtga atacacctt 120
 gtttggttct ctatttggtt cttaaccttc tcatgcaa atctttacaac ctatgacct 180
 gattgcctt ctttatgtat aaaagaaggg tccagtggga ggggaatgag gtctaacggt 240
 gttaggggat tgaaccata tacaacctca aaaggggatt gcttggtggt tctatgaacc 300
 cccctgttgt atgcaaattc tacatg 326

<210> 12755
 <211> 398
 <212> DNA
 <213> Glycine max

<400> 12755

agcttcctt tcttcggcca atgctttact tgtttggcag tgatttcctt ggcaatttga 60

tgctcagaaa catcaatata tatcaactcca tcagtaggtc tgcccaaata ttgtttgate 120
 acagcagggg agaataaac acactttcct ctgacaaaca ctctttgata atcatcactt 180
 tttctgtttg atatgtcaga gggaatgttg acaatgaatt ccttgactaa gccttcatag 240
 caatctccca acttgctgac agtcttcagc agtctctgag ccttgatgag gtccatgata 300
 tccttgcaat ccaaggcacc tcttcccagt tctctttcaa ccgcaagtct gcgttgatac 360
 acatatttcc acttttcaac attgccaatg gaggggaa 398

<210> 12756
 <211> 334
 <212> DNA
 <213> Glycine max

<400> 12756
 tatttttcaa ttctgagcgt ctcaatatgt taatttcccg aatcaaacat cagtgtgaaa 60
 agttatgacc atttcaattt ttctagagct atcgttgttc aaattcgagc gtctagatat 120
 gttatgcact taaatcggac atccgagtga aaagtatatga ccatttgaat ttctcaagag 180
 cttctgtttg tgaatttcga gcactctgat atattatgtc cccgaatcgg acattcgaga 240
 gaaaagtgtg gacaatttga atttctatag agctgtcgag gttcaatacc aagtgtctcg 300
 atatattatg cgcctgaata tgacatccga gtga 334

<210> 12757
 <211> 349
 <212> DNA
 <213> Glycine max

<400> 12757
 gatgtgttgg atcgagtggc ctcataataa ttaagaaagg gggggggata gaattaatta 60
 ttctaaaaac cttaccaatt aaaaattact cttttaaggc ttttacttat gttgttaaga 120
 gaatatggag tagaagagaa acttaacaga aagtaaaagc ggaaattaaa tgcacagtgg 180
 aaagtaaaag agtagggaag aaggaaacaa acacacaagg attttttatac tagttcagca 240
 caaaccctgt cctacctcca gtccccaagc gacctgcggt ccttgagatt tctttcaacc 300
 ttgtaaaaat tcttttacia gcaaagatcc acaaggatat tacccttcc 349

<210> 12758
 <211> 368
 <212> DNA
 <213> Glycine max

<400> 12758

taacaaatgg acctgggtgt tgcccagttt catcatatct tccgtaatac ttatcacctc 60
 tataatatct aataattttc acatttatgt ctaattgcc a ttttacttca ttgtagtaaa 120
 tttctaaggc atccattgcc taagaaatct cgggcaataa gtagacataa ccgtaacgtg 180
 aataatcatc aataatggtg ataaggatc attcctttcc gaaagaacta acatcaaaaag 240
 gtccacaaat atcagtatgt acaatttcaa gaagctgagt gcttcttgta gctcttttct 300
 ttgtatgttt ttgcttgttt tcccttatac aaccacaca aatatttaga tccataaaat 360
 ctagataa 368

<210> 12759
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12759

gtacacctac attcgtatac acgacaaact ttntctgtat acacacgcat taaaaactct 60
 ttctctttat atcaacacgg tctataataa aactctattc ctgttcaaag atttcttttt 120
 cgattttcaa catacaactc gtggtttata caaaaaactt ctttatatac actcattgct 180
 cacacacaag aatttctttt cagcattat ttacacacac acaaaatctt tccatacact 240
 ttatatatag acacgacatt tgttcacaac gcctctttct tttttttttt tctttttttt 300
 tcggcgttat catgattttt gtctgtttta ttnttaggac aatgttcta aaggaaaact 360
 ctacaaggtt ccggaatttc aacaacatt atcaacaata acg 403

<210> 12760
 <211> 365
 <212> DNA
 <213> Glycine max

<400> 12760

agcttcaaca tcagaccact tccattgtgc tggaactact ccacatggat ttgatggggc 60

ctatgcacgt tgaaagcctt ggaggaaaga ggtatgccta tgttgtgtg gatgattct 120
ccagatttac ctgcgtcaac ttttcagag agaaatcaga aacctttgaa gtattcaaag 180
agttgagtct aagacttcaa agagaaaaag actgtgtcat caagagaatc aggagtgacc 240
atggcagaga atttgaaaac agcaggttca ctgaattctg cacatctgaa ggcacactc 300
atgagttctc tgcagccatt acaccacaac agaatgggat agttgagagg aaaaacagga 360
ctttg 365

<210> 12761
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12761

tgaaattgaa caacggaagc tctcgagaaa ttcgaatggt catatactta tcacacggaa 60
gtccgattca ggcgcataat atatctagac actcgaaatt gaacaacgga agctctcgag 120
atattcaaat ggtcataact tatcacacgg atgtccgatt caggcgcata atatatcgag 180
acgctcgaaa ttgaacaacg gaagctctcg agaaattcaa atggtcataa cttatcacac 240
ggaagtccga ttcaggcgca taatatatcg agaagctcga aattgaacaa cggaagctct 300
cgataaatnc aaatggtcac aacttgtcac acggaagttc gattcaggcg cataatatat 360
cgagacgctc gaaattgaac aacggaagcc ctcgagaaat tcaaatggtc ataacttgtt 420
aca 423

<210> 12762
<211> 580
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12762

tagtaaagct aagcactaac aatctcccc tttggcaaat tttgtctaaa acatacttag 60
acacttcctg agcaggtagc agcagttatg caagtgggat cagcaacttc cattatcaga 120
gtaatcaagc acagcggaat ctgtagtcta gacaagttgc aagtcgtttc caggatgtca 180
agacatctca catgacatct gctttctgct tctgtctccc ctgtctccat gcttactgca 240

gcattcttcta tcagctacta gtcttctcca ggatgtcaag acgtctcttg tgacatcagc 300
 tatctgtctcc cctgtctctc atgctctttac tgcagcatct tctagtagct tccatcagtc 360
 atcatcagca gcagcagctct cccctcctaaa atcgtataca tacaactccc cctcaaaaatc 420
 atgaatcatg catacatcgt atcctactgc catacatcat acatagttat ctactactca 480
 naatcatgca taatagcaag cataatacta ttactccccc tttttagaca gaaattgaca 540
 aaagtagaat gcatgcaagc attaatgtgc aaatattaca 580

<210> 12763
 <211> 435
 <212> DNA
 <213> Glycine max

<400> 12763
 tegatgcgcc gtgcagcacc ctgcagccca cgtcggtggt tgccggcagc ggcagcctcc 60
 cctgcacctg caaaaacacc ctgaactcgt cgtcttctct gatcacggga tgcgtcgcca 120
 gccgcgcgag gtactttctcc agcgcctatc tctctgtctc caggaactcc tgtttctgca 180
 tcacctggct ctccaccacg ctcttgctcg gccgcggcgg gatgaaaaac ccgcggtagc 240
 cctctgcgag ccgatcagag agcgtcacca cgtcacggaa ccgcgcgcgg accgcggaat 300
 cagcgcggga ggccgcgaat tcttgaatgt tcgtctctgt gtgaccaagt atgtcacgta 360
 actgttgcta ccaggaacaa tagaattcga tgattcttgc tctttgacag ggttcgaaac 420
 ggttatcttt agata 435

<210> 12764
 <211> 618
 <212> DNA
 <213> Glycine max

<400> 12764
 tctgatttag cttattgaaa caaataaata aaaaaagctt atatgtttgt tatgagctag 60
 ttccataagc tcaaataaac cttgtacgat ttttatttta caaacctgcc ctaatgctat 120
 aaatgattta tggcatgtat gcaactgaaa aatattgtgc ttggattctt catataagtt 180
 ctttatactt ctaaattttc tttaagcttt aattttctgt ttttccccct aagcattttg 240
 attctgtatt tctatatcat ttgcaatata aggtgtacat aaacttacac atatctagga 300

gtgaagggtta tttacttggt agattgggct tttaccaacc atgcctactt atgttaagtt 360
 ataactgac atgattgagc aagggtgcat gagttgtaag ctctctgata ttatctttga 420
 ttctacaaa taacaatata ataattgac atgatttgaa actattgttt atttagtggt 480
 ctacttctcc cagcatggtta gacatttctt aatgggtatg taatacaatg agttttgttc 540
 tataagttgg ccgaatacac aatcatagtg tcttattgac atgctctgat tttctgtgca 600
 tacctatggt ctcatcct 618

<210> 12765
 <211> 614
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12765

tgtgggtgcat gtgtgttgtt gtgtgtttgt caagttgacc ttgatgaagt gaatgctcta 60
 gcagagctaa tgacatggaa gacagttgta gcggacattc cttatggagg agcaaagggt 120
 ggtattggct gcaacccaaa ggagctcagc gtcagtgagt taggaagtct cacttgtgtt 180
 ttcttccaaa agattgatga tcttattggc atttagagag atgttcatgc cctgacatg 240
 ggaactaatg cacaagttct aatttaatta tattccattt ccttacataa tnttttgttt 300
 ggggcaattt cttatgtaaa ccaacatcta gaacttttat ttattattct atcattttca 360
 tttgtttact atttactga caaaggcttg cattcttgat gagtattcaa agtgccttat 420
 agtttatatt atcaataatt ttaatttaaa actattaata ttacttttnt ttgtagaagt 480
 tggatatatt acaaaaattca tttgttgcca aattgtgttg attaacataa aattttattt 540
 taaaaatatg aaattttata cattgttgtc atgaaaatga aatttttggt taaaaatata 600
 agaaaaaata tttt 614

<210> 12766
 <211> 521
 <212> DNA
 <213> Glycine max
 <400> 12766

aacgacaata acttttttct atgatgtccg attgaatcgg gtaatatatc aggacgtcca 60
 aaattgagac ttgaacctct aagaaaattg aaacgataat aactttatac acggatttcc 120

gacagattgc cgtaatatat cgagacgcat taaattgaaa aaagaagctc gtaggaaatt 180
 cgaacgacaa tatgttttta ctcatatgtc cgattgagtc ccgtaataaa aaaagacgct 240
 cgaaattgag agcagaagct ctgagcaatt tcaaacgaca ataactttat actcgaatgt 300
 cctcttgaga cccgtaatat atcgagatgc tccaaattga aaatggaagc tcgtagcaaa 360
 tttaaacgac aataaatata tacatggatg tccgattgag tcccgtcgta tategagacg 420
 cttcacattg agaacggaag gtcgtataca attcaaacga cgattactat ttactgggat 480
 gtctgactga gtctcgtagt atatcgacat gcttcattt g 521

<210> 12767
 <211> 545
 <212> DNA
 <213> Glycine max

<400> 12767
 gtctcacgat tgtcacgtgc tcatgcaaca attgttagtc gtggctatac gagacatctt 60
 gccaaacaaa gtcagggtca cgataactcg cctgtgcttt ttcttccatg ctatatgtag 120
 caaagtgatt gatccagtaa tgtttgatga gttgaaaaat gaggccgcaa ttatactatg 180
 ccagttggag atgtattttc ccctgctttc ttgacatca tgattcactt gattgtgcat 240
 ctggtcagag aaatcaaagc ctgtggctct gtttatctac ggtggatgta cccggttgag 300
 cgatacatga agatcttaaa agggatataca aagaatctat atagtcgga agcatctatt 360
 gttgagaggt acattgcaga agaagccatt gaattttgtt cagaatactt agagaaggct 420
 aaagttgttg ggcttcctga gtgtcggcat gatgacagag tgggtggtta gggttcaaga 480
 ggactgcatg tgatcactcc aagtgtagaa gatttgttac aagctcactt gtagtctttg 540
 acaac 545

<210> 12768
 <211> 558
 <212> DNA
 <213> Glycine max

<400> 12768
 ctcagcttca catcagacca cttccagggt gctggaacta cttcacatgg atttgatggg 60
 gcctatgcag gttgaaagcc ttggaggaaa gaggtatgcc tatgttggtg tggatgattt 120

ctccagattt acctgggtca actttatcag agagaaatca gaaacctttg aagtattcaa 180
 agagttgagt ctaagacttc aaagagaaaa ggactgtgtc atcaagagaa tcatgagtga 240
 ccatggcaga gagtttgaaa acagcagggt cactgaattc tgcacatctg aaggcatcac 300
 tcatgagttc tctgcagcca ttacaccaca acagaatggc atagttgaaa ggaaaaacag 360
 gactttgcaa gaggtctgcta gggctcatgt tcatgccaaa gaacttcocct ataatctctg 420
 ggctgaagcc atgaacacag catgctacat ccacaacaga gtcacactta gaagagggac 480
 tcttaccact ctgtatgaaa tcttgaaagg gaggaagcca actgtcaagc acttccacat 540
 ctttggaagt ccatgtta 558

<210> 12769
 <211> 534
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12769

ttgagccaat tcaaacgaca ataacttttt actccgatgt ctgattgagt cccttcatat 60
 atcgagacgc tcgaaattga atgttgaagc tctgagccaa ttcaaacgac aataactttt 120
 tactcggatg tctgattgag tcccgttaata tatcgagacc ctcaaaattg aatgttgaag 180
 ctctgagcca attcaaacga caataacgtt ttactcggtat gctctgattga gttccgcaat 240
 atatcgagac cctcgaaatt gaatgttgaa tctccgagcc aattcaaacg acaataactt 300
 ttactcgga tgtctgattg agtcccgtaa tatatcgaga cgctcgaaat tgaatgttga 360
 acctctgagc caattcaaac gacaataact atttactcgg atgtctgatt gagtcccgta 420
 atatatcgag accctcgaaa ttgaatgttg aatctctgag ccaattcana cgacaataac 480
 ttttactcgg gatgtctgat tgagtcccgat aatatatcga gacgctcgaa attg 534

<210> 12770
 <211> 516
 <212> DNA
 <213> Glycine max

<400> 12770

tcctcgtggc ttctttgaga agctttctca agaggcttct ttgataatct acatccttat 60

ctatccaccc ctctattaac taaattaact tccttaaaaa taattacgga tgaaaataac 120
 gcaacaaata atcaaacatc taacataatt actaataata tatagatata tatatcaggg 180
 tgttacacta cctgcaattt ggagccctaa atacaagaac caaaagtaat gaaaccttaa 240
 tetaatatgt acaaagataa atggggctcat acttagccca tgagctcgaa atctacccta 300
 aggetcatga gaatccaagt gccttctctt gcctctctag cccaatctac taggagtctt 360
 ctatccaatg cccttgcagg gtgaatttgc atcattccct ccgccttgaa aaggatttga 420
 cctcaaatcc agagggttctt gaaactcttg gcttttttcc tcaacaccta gatgaagatg 480
 ctcttgatac tacatgatgt aaactccatt ggagct 516

<210> 12771
 <211> 634
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12771

tgatttatat ttaatttcca ctgtgtaat aggtacattt ttaatgttca tattatcata 60
 gttttgcatt ttttgttatt taatttattt tattttatta aaaggcatgg ttagagaaga 120
 tccatcaata aaagtttctt tgattcaaga aaggataaac agtggatttg gctataaggt 180
 ttctgacaaa aaagcatgat gacgaagcaa aaagctattt caattgaata tggagatttg 240
 gaagagtcat atgccaaact ttcattgttg ctaaaacaca tgcaaaataa ttcttctgga 300
 ccttattttc aaatattgca tgatgatttt attgttggga atcggttgag tcgtgaacac 360
 cgtcaatttc ataanagtat ttgggcattc ggtcaatgta aaaagacttt taattattgt 420
 aagtcaatca tacaagttga cgacacacat ttatacggga aatategttg gaccagtta 480
 atggccacat cacaagatag aaatgggtgt gttcttcttc tagcatctgt cgtagtcgaa 540
 ggtgaaacgt taacagcgtg gtcattgggt ttgacacatt tacatgaaca cgtgacagat 600
 aanaatggta tttatctcat atttgatcgt catg 634

<210> 12772
 <211> 699
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations

<400> 12772

taggatcagc ataaaaaatg ggtagggtcg ctgcagtgca gaaatatgaa aaatttcggt 60

tggtatatat atattaaaaa tgattaatat taatcgatag atttaaaaaa aattaaatat 120

atatcttaaa aattataatt tgacatccta aaatatttca aatttataat tactatatca 180

ttattaatta ttacatccat aactatcctc atcatgatgg tcaaccgtct ttattatcgt 240

gtctatatat atattgaaaa aaagtaaata aaatgaaatg agataatatt tattttgtta 300

tttgattatt ttaaaaaata atagaaaatg ttgttttatt taaattttaa aatatgagat 360

aaaataggga taattaaata atatcattta ctagtatttt gtgttatgcc tttttccaaa 420

taataaattc aaaaatttat tctatcttaa tantaaatt aaaaccaata tgataattnt 480

attaattatc cctttatttt ttgtttcgt tcattattaa atattccaaa tattaaatat 540

aaaaacttaa agaagataat taaccacaaa aatgacattt gtataaatac atgggacgcc 600

aaaaaataa taatacatga ttgtctctaa aaagaaaaaa taaatacatt aatatcaact 660

ctaattacta aatctgaata tattattgta ttagtaatt 699

<210> 12773
 <211> 554
 <212> DNA
 <213> Glycine max

<400> 12773

tgttatgaag atgaaaaacc tatctcttac tagatgtcag tctatttgta gagttgtatc 60

cataaactca atgtcacaat cacccttgtg aatatgatcc ctaatgaaat gatgcttaat 120

atttatacgc tctgtcctag aatgcgatg aggattctta gtgatactaa tgacactagt 180

gttattacat cttaaagaa tatgttctaa atgcaattat aaagtcagat agttatttgt 240

taatacacaa gatttgtgca caacaacttc acacaacaat gtactcatcc ttatctgtaa 300

acaaggcaac acatgcttga ttcttactat tccatgaaac caggccatta cctatcaagt 360

ggcaaaact actagtgggt ttcttatcta gtgtaaactt ggaaaagggt gaatctgagt 420

attcaagtag aaagatctca gcacctttta tggtaaccat taccaacatc tacattgcct 480

tttaggattt tattatcctt ctttatataa agaagtaaga ctctctacga ctggattgtt 540

agtggtgcaca catg 554

<210> 12774
 <211> 499
 <212> DNA
 <213> Glycine max

<400> 12774

tggtcagaaa cgtgcatttg tgtgcaatac acaattcccg gttctctaca tcaaaatggt 60
 gtatcagaaa ggtgtaatag aactttaaca gatatgggta agagtatgtt catcaattag 120
 actttaccgg tatcttttgg gatgtatgcc ttgaaaactg ccatgtattt gttaaacagg 180
 gttcctagca aggtagtccc aaagagacct ttgaaactgt ggacaaatag gatacctagt 240
 ataaggcacc tgcattgtta ggggtggcag gcagaaataa tgatttataa tccgcacgaa 300
 agaaaattgg atgcaagaac aatcagtgaa tatttcattg gttatccaga aaagttaaaa 360
 ggggtatatgt ttattgttgc taatcatagt atgagaattg tcacaactgg aaatgcaagg 420
 ttcattagaa atgatgaaat cagtgggagt acagttccac gagaaatgga attaaagaag 480
 ttagagtgtg agtccctttt 499

<210> 12775
 <211> 658
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12775

tggtcttcac tcattcttct cttgaagtgg catctocaat cacttttctt ccttctctat 60
 tctactatca ttgatcttca agaagaaaag gactccattg atgaagaagt ttcaaggcgt 120
 acaagctcca catggggcta catcagacag cgtcgactgc gtcacgtcac cagaaaccac 180
 caagtctctg gcagcatcca ggtggaacct cccattcgtc ggcgagaacg agtgtgctag 240
 catecccaag ctcccgctga acggctcccc ctggctgtgg tcaccactga agaaccgat 300
 cctaattgtg gtgcttggtt ataaataagt gcaacaagat tttctttcat tgtgtctctc 360
 ttgtgtgcct ttccatctg caacaaagct tgttctatat ccatttggtt tgattagggt 420
 ttctcttttt ctgaaacttg gttttcttct tcattgggtt attcttttct attttcgc 480
 atggatcatg tgatgagaaa aaatttgcaa caatatgatt ggattcgttc catgattcat 540
 agtatttaag tctctgatga ttaactctcc tttntagaa ttaattttga gtcccttttg 600

gtttctaaat atcatttttt tcttagtggt gatagagtga caaccagaga gacatgat 658

<210> 12776
<211> 477
<212> DNA
<213> Glycine max

<400> 12776

tggacttggt attacctctg tagccatttg gagccacagc ctccatgtct tttactaaa 60
gccaatgagt gtttgtgaac tctcagcaaa atcttggcca agtttattga cagcaattca 120
gcactgcaac ccattccact caggttgaca ctctttacgt tgctccgga tccgaacttg 180
ttaatgatca ttgatgtaat ggatggtgta ggacaaaata ggctacagtt tgacacaagg 240
atatcaatgc ttttaggatg cactttgtgt ttgaaagga ggtctttgac aattctgaat 300
agaaccgatt caacttctgc ctgtgcacgc ttcattggaat catccggagg gagctcatga 360
actgattctg gcacacaagg ctccacgcca ataccggatc tttccaatac tttcaattca 420
aagcctatga gttcatggtc aaaattgcac aattcaaagt gttctacaat atgagag 477

<210> 12777
<211> 618
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12777

ttttccaan agcttgatgt aaaaatgtac ttattgagtt cttatttatc aaacttacgg 60
tagggtaagg ccaattggaa tgtgattgcc accaagcttt atgaacagaa gttgtgtcac 120
caggaagttt cccagctctt ctcttgcgca agatttctc tcttatatct acaattttct 180
ccttataacc ctgtatgata aaaattaaaa aagtaaaaag aggtcaatca tatgggaaaa 240
gatttgagaa ggggaaatga acaaccatca acaattcaac atcccttacc tgtttcagtt 300
catgctttta tctttgtctt actcgtcca tgaggacct ctcgctctct gtaggaaaca 360
gagggccaaa ccccatgcca tctgccccat cgaaactact atcaaagaga ttggcgtcac 420
tatctacttg gtcattctca tcatcagaca ttgttgcccc tgtaccttct ccaggatgaa 480
ctcctgtnta tcatgctgca tgtgagaaca tttatatggt tacttgctgt ggctaattga 540

accaagagtt tgaagatctt cttcaacact agaactatca tcatttatct gttgcanagt 600
gcaatcttgt gggttagt 618

<210> 12778
<211> 728
<212> DNA
<213> Glycine max

<400> 12778

tcagaagcaa gcttccatca taatatgcc ccttgtgctg tgaagacaca caaccaaattc 60
attgttgctt gcatggcaat acataacttc cttcaaagaa atgacgagag tgacagagaa 120
tttgattcac ttgatgaaga taacgaatat atagatactg atgaggatga aaataaagt 180
gggcctagta ctacaacatg aaagaaccgg atgctcaaag tactctacaa ttggaacgct 240
ttagagaatc tctaaagaat atgtttccaa cagctattta atttctatat ttgttaataa 300
tacaagtttg catgtttatg gtatggatac atttgaataa ttttatattg gaagacatta 360
ttgatcatat tattactagg ttaatgatat tttatattat gctataaatt ataattacat 420
agacaataat taaattataa actaaaatgt atgtgataac attactaaaa caataggata 480
attacatgtt taatatgaaa atttattatg tagaaagaca tataattata ttgttatgag 540
atacatttat tttatttttg tagcagaatt aattcttaat caaaatttct taaaatatat 600
acaatatttt aacttaatga tgaagtacat attttataat gaaatagaag agaaagacat 660
tttattttt taataatatg tattattaac gaacttataa tattttaaatt ggtgaggatt 720
agtataat 728

<210> 12779
<211> 502
<212> DNA
<213> Glycine max

<400> 12779

tgaatttgaa caacggaagc tctccagaaa ctcaaatggt gataacttat cacacggagg 60
tccgattgag gcacataata catcgagacg ctcgaaattg aacaacgaat gctctcggga 120
aattcaaatg gtcataactt ttcaaagcga agtccgactt aggcgcataa tatatcgaga 180
aggttggatt tgaaccacga atgctctcga gaaattcaaa tggtcataac atttcacaca 240

gaagtccgat ttagggcgc atatatatcga gaaggttgaa attgaaccac gaatgctctc 300
gagaaattca aattgtcata acttgtcaca cggaagtccg attcaggcgc atactatata 360
tagacygacg aaattgaaca gcgaatgctc tcgagaaatt catatgggtca taacttgtca 420
cacgaaagtc tgatttaggc gcataatata tcgagacgct cgaaattgaa caacgagtgc 480
tctcgagaaa ttcaaattgg ca 502

<210> 12780
<211> 582
<212> DNA
<213> Glycine max

<400> 12780
tgcacacaat ttcttgaatc ttcccaata ctcatacaat ctctcttctc tcagttgcct 60
gatgcctaaa atgtcttttc tgatggtagt ggtcctagat gcagggaaaa atttctccaa 120
gaacaccctc ctaaggatcat cccagctgaa aatggacttg ggagcaaggt agtagagtca 180
atattttgcc actccctcca gataatgagg aaaagccttt agaaagatat gatcttcttg 240
gacatcaggg ggcttcatgg tggaacaaaa aatatggaac tccttaagat gcttatgagg 300
atcttcacct gcaagaccat gaaacttggg cagcaaattg attagtcag tcttgagaac 360
atatgaaaca ccctcatcag gatatttaat gcacaagctt tcataagtga aattaggtgc 420
agccatctcc ctaaaagtcc tctcatgacg aggaggttga gccatgttct cggtatgaat 480
attagttatt gaatgctcaa aattagaata ttcacaatca ctctcaacag aatgcttata 540
tgcacagaat gaccaggatg catattatgc tctacttata ta 582

<210> 12781
<211> 652
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12781
taaaattcat tatggatgca tatgctaaga gcattctaatt ggcttctaatt atatcaactg 60
gagcatatgt ttctcataa tctatacctt cttcttgatt atatcctttt gcaactaatc 120
tatccttatt tctaattgatt attccatgtt catctaactt atttctaaat acccattttg 180
ttctatgat gggataattt ttaggtttct ctacaagttc ccacacattg tttctttcaa 240

attgattcag ttcttcttgc atggcaataa tccagttatc atctactatg gcttctttta 300
 tatttttagg tgcaatcata gatacaaaaag ccatattatt gcataaatct ttaagagaat 360
 gtctagtgtg taccocctttt gagatatcac caataatggt gtcaagggga tgatctttng 420
 aagctttcca ttcttatgga agttcatcat tggatttgac ttcttctgga ggatcttcat 480
 tgcttccctt accttttccct ttagaatctt gaccatgaat atacaatctg ttctaaagat 540
 tctgcaatat catctatcat attctttctt tgaaaagata gcattaaatt catcaaagct 600
 tacatgaatg gattcctaca tattcataga tcctttatta tatatcctat at 652

<210> 12782
 <211> 573
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12782

ctaagcttca taaatcacta gtaaaattta aagatgatat gaagttcaac ttattttctc 60
 aatccccacc ttcccccttt ttgttttgc tcatgttctt atttacgttt aatgtttttg 120
 tagactgtgt gatgcaatcc tccctaggaa gggaccagtc actagaacca tgagcaagag 180
 gctccaagaa gattgggcta gagctgctaa agaaggccct agggttctca tgaaccttat 240
 ggtagatttc agaggccatg ggccaagggt gggccaatt atctttgtac atattagatt 300
 aggatgtcat tatatttggg ccttgtattt anggtccat attgtaggta gggtaacctta 360
 taaatatagg atttttcagc ccttgtattt tatggcacct agactagttt ttgtattagt 420
 ggtagttttg taatttcaca tgcactaagt gaatatttga tgtgtgtggg tggaaataat 480
 ttaattgaat tgcagaagcc caactcatta aatttagagg tgaggggtgag catgtgctta 540
 ctacacccca ttgtctcacc atatagtcac act 573

<210> 12783
 <211> 501
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12783

ntgaaggcat ctacctcttg aagaggcaga ggtaagggca tatggattat tggtagaggt 60

agaggacggg gagatcaaac actattagaa aatacacttt caacatcggg tatttggggc 120
 cttctacatc gggttgtaaaa ccgatgttga aagcatcgat gttgaatgta ttgttgtaa 180
 catcgggtttt aaaaactgat gttaacataa aaatattaac atcagtttta taaataaccg 240
 atgttataaa gaaagaagta caacaaaata agtgtatgcg tgagggacgt tggcatcagt 300
 tttctgtaaa aaccgatgtg aatatgttat attaacatca gtttttagag gaaaccgatg 360
 tgaacgttca tcattcatgc acctatnntt gctatagtaa ttatgtataa cattggttat 420
 ttataaataa ccgatgttat tgcatacagt ttaacaatcg gtattttata aatattcgat 480
 gttaacctat gtacattaac a 501

<210> 12784
 <211> 415
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12784

agtttccaag tgccaattcg ncttcttctt tatttcagtc tttttctggc ttcaatncat 60
 cagagggctt tccttctgtg tccagcatct tgggatgttc ccagcctttg atgacagctt 120
 tccagggttct gctatccagt gatttgagga aggccaccat ccttgcttcc cagtattcat 180
 agttgggtcc atccagaata ggtggtatgt tcaactgggcc tccttcttcc tccatgttca 240
 tcagaattta tctccctaga tctcactcag tgatttcgag tgcccgcctc gataccaatt 300
 gaaattctga tactggggac agatgtcgta caggatgtca cgacatcacg cttcagaaca 360
 tgcagattgt atttgacagt gtgcacagtt taagcgagta aataacacaa gagaa 415

<210> 12785
 <211> 456
 <212> DNA
 <213> Glycine max
 <400> 12785

aactcaagct tgtagacctt ctcttcttca ccttttcgaa catatttcgg tgggtgttcc 60
 acatacacgt cctctgtcaa ttctccgtga agaaatgcgc ttttgacatc tagttgatac 120
 acattccatc ccttttgtgc tgcttgagct aaaaccatcc ggattgtgtc ccaccttgct 180

accggggcaa acatttcggt gtagtcaatc ccttggtgct gagcatagcc tttagctact 240
 agtcgggctt tgagcttacc aacttcacca ttctcattta acttggttct aaaaaccatt 300
 tcactccaat cttcttagca cctttgggca aagttgtaag ctgccagggt tcattctttt 360
 tgattgcttc aatctccaaa tccattgctt ttctccattt ctcatctctt tcagcttctt 420
 caaatgagct tggatcttca tgagaggtaa acattg 456

<210> 12786
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 12786
 agcttcatat ttattaagag gcccat AAC attctcttta actctgaaaa ctcaacttga 60
 cccaattggt ttctctattg atggaagagg atccagatcc caggcttagt ttggaggtaa 120
 tgctaaatat tcttggtgca tggcttctt ctacttagga taagctaaag cctattttac 180
 accttttggt tcacaatgag taagtataga aggatgaagt ctagggtgat agttaccaga 240
 ctttgacctt gtctgcatag gatgagcatt cactattcta ggtggtgaag tagtttcaaa 300
 attttgagga ctggtttttg cagtaggtgc agagtgaaca atgggttgaa catggctaga 360
 agaagaaggt ggatcaatag aaacataact ggacaagggt agtgaggaaac aat 413

<210> 12787
 <211> 325
 <212> DNA
 <213> Glycine max

<400> 12787
 acacaccccc tataatagct aagctcacc catgacaaac aacatgaaaa tacaacaaaa 60
 aaaagtcctt actacacaaa ctactcaata gaatggccaa aatacaatgc ctacacgaag 120
 gataaaccta ttctaattt tacaagata atcgggctca tacttagccc atgggctcga 180
 aatctacctt aaggctcatg agaaccctcg ggcctttctt tggatctcta gcccaatcta 240
 cttggagtct tctacccaat gctcttgctg ggtatgattg gcatcagtca gtttctaaaa 300
 acgctattat atcaaaaatc gtctt 325

<210> 12788

<211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12788

ntggagtttc caagtgccaa ttcgtcttct tcttttttcc agtcttcttc tggcttcaat 60
 tcttcagtgg gctttccttc tgtgtccagc atcttgggat gttcccagcc tttgatgaca 120
 gctttccagg ttctgtatc cagtgatttg aggaaggcca ccattcttgc ttccaatat 180
 tcatagtgc ttccatcgag aattggtggt ctgttcaactg gtccgccttc tttctccatg 240
 ttcatcagaa tttatctccc tagatctcac tctgtgattt cgagtgttgg ctctgatacc 300
 aattgaaatt ctgataccag gggacagatg tcgtacagga tgtcacgaca tcacgcttca 360
 gaacatcgag attatatgtg tccgtatgaa cagattaaac aagtaaataa cacaagagaa 420
 ttgttaccca gtctg 435

<210> 12789
 <211> 430
 <212> DNA
 <213> Glycine max

<400> 12789

actcagcttg agcaattcaa cgacatactt ttactctgta gcttgatttt tcatgtaata 60
 tatcgagatg ctagaaattg aatgttgaag ctccgagcaa attcaaacga caataacttt 120
 tcaactcgggt gtttgactga gtcccgtaat atactcgagac gctccaaatg gaataccgaa 180
 gctctgagca aattcaaacg acaataactt ttactttgga tgtctgattg agtcccgtaa 240
 tatatcgaga gggtcggact tgaatgccga agctctgagc aaattcaaac gacaacaact 300
 ttttactagg atgtccgatt gagtatcgta atatatctaa acgctcaaaa ttgaatgttg 360
 aagctatgag caaattcaaa cgacaatcac ttttttactc ggatgtctga ttgagtctcg 420
 taatatgttg 430

<210> 12790
 <211> 382
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 12790
 tgccgccacg gaattntccg actctgtctt agngatgtgg aacaagctac aaaaggagag 60
 agcaaganat gaagagccaa tggttgatac atggacggag atgaaaaaga tcatgaggaa 120
 ggggtatgtg ccggctagtt actcaaggga cttgaaattc aagctccaaa aactaaccca 180
 aggcaacaag ggggttgagg agtattttcaa ggaaatggat gtgctcatga ttcaagcaaa 240
 tattgaagaa gatgaggagg taactatggc tcgattttct aatggtttga ctaatgatat 300
 ccgtgatatt gttgagctgc angagtttgt tgaaatggat gatttgcttc acaaagcaat 360
 ccaagtggag caacaattaa aa 382

<210> 12791
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 12791
 aaaaccctt gaactacttc aaaaccctt gaactacttc acatagactt atttggctcc 60
 tctagaacta tgagtttggg tggttaattac tatgacttag ttatagtaga tgattactca 120
 aagttcacat ggactttggt gttgaaaacc aaaaatgaag cttttgatgc ttttcgcaca 180
 cttgccaaata ttattgaaaa tgaaaatggt ctcaacattg tttcacttgg aagtgatcat 240
 ggagggtgaat ttcaaaataa gtcttttgaa tagtgttgtg aagaacatgg aattcaccac 300
 aattgttttt gcccgaagaa cacctcatca gaatggtgtt gtggagagga aaaatagatc 360
 cctctgagaa agaacaataa ctct 384

<210> 12792
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 12792
 agctcagat tattttattgt ataattttct tacactctca atttattaaa gatgatcata 60
 tataataaat ttagtaaat ttataataat tattttaaaa atcattcatg attatgagtt 120
 atcaaccatc acataaagga acttgacacc acactttaac tcaaagttct aagattcatg 180
 tttatgaatc ttctctcgt gctcaactct ttttcacttc tacgactcca cctcacactt 240

gtactagatt tggatctttt aattaagatt tcagtttaaa tttgtgttga taaaaaata 300
 taattaagag aaaagattct attaaagctc accaactaga ttttctaata aattagttat 360
 caataaagtt ggtgattata tacttccat taatgttata gtgacaaaaa 410

<210> 12793
 <211> 429
 <212> DNA
 <213> Glycine max

<400> 12793
 agcttcatat ggacatcgct tcattttggt cgccattggt tacttcacca aatgggttga 60
 agcggcttca tacgccagtg tgactaggag tgtggtggtt aggttcatca agaaaaagat 120
 aatttgctgg tatggtttgc ctaggaagat tatcactgat aatgccacca atctgaacaa 180
 taaaatgatg aaggaaatgt gtgaggattt caagatcaa caccataatt ctatgccttg 240
 caggcccaag atgaatgggg cagttgaggc tgctaataag aacatcaaga aaatagttca 300
 gaagatgac gtgtcataca aggattggca caagatgctc ccttttgcac tacatggtta 360
 ttgaacctcg atacgcacat caactggggc aaccccgttc tctttggtgt atggaataga 420
 ggttgtgct 429

<210> 12794
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12794

agctngccaa cctatgtaag ctccctatat ctccacact gtttgttgtg ggccattctt 60
 ggatggcctt gattttctca ggggccactt ggaccccat tctaccaact acaaacctta 120
 agaaaaactat attatctaca caaaaaagta cacttctcta tatttgcata gaggggtgtt 180
 ttctaaaga ctgaaagaac ttgcctaaga tgtcctaagt gatcatctag gctcctactg 240
 tactactaaa tatcatcaa ataaacaact acaaatctac ctatgaaatc ccttaagaca 300
 tgatgcataa gcctcataaa ggtgcttggg gcattagtga gcccgaaagg catcactagc 360
 cattcataca aaccaaactt ggtcttgaaa gcgggtttnc actcatcac 409

<210> 12795
 <211> 257
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12795

acactttngt gcgagaaacc gagacgctcg aaattgaaca acggaagctc tcgagacata 60
 aaatgggtcat aactgtttaa acggaactcc gattcacggg cataatatat cgagacgctc 120
 gaaaccgaac aacagaagct ctcaagaaat gccaatggac ataacatgtc acacggaggt 180
 ccgataccag tggatagtat atcgagaagg tcgaaattga acaacggaag ctctcgagaa 240
 attcaaatgg gaataac 257

<210> 12796
 <211> 429
 <212> DNA
 <213> Glycine max

<400> 12796

ctattagtaa gacttcattc ttgaattcat ttgttccttg cttataactt cttgaaagtc 60
 tctttactgc tatttgttgc ccacaggtg atatccctg aaattaaacc attattcatg 120
 tgaaaaacaa aaatatgaaa ataacttttc tcacatttac tcaccttgta aacttctcca 180
 aatccacctt tgccaatata gttctcattg gagaagttgt tagtcgccgc ttcaattaca 240
 gccaaatcaa attgcaatgg ctctaaaatg gcgctttcat gaccaactag aacaaatatg 300
 gttagtttgt taaaccaagt tttcaaagt ttgaggataa caaatcagag tttaaagtac 360
 atatttttta catacaattt tctttgagaa tggctcctaa actctctctt gcttgtctcc 420
 ttattaaat 429

<210> 12797
 <211> 364
 <212> DNA
 <213> Glycine max

<400> 12797

gtgcagttca ctaaaggaga ctgggtcttc gttaagcttc gtccatgtcg ccagtcacag 60
 gcttcaggtg gtcaatactc caagtttagca aaaaggttct acgacccatt tcaaatgtt 120

caaaggatcg gacctgtagc atataaactt gacttacctt caacctcaag aatccacctt 180
 gtcttcatt ggctcttact caggccttat cactcttcac tgaccacaac agaaacaccc 240
 attcccttgc ccaatgcgga tgaagataac caaccctcc tcaccctct cagcatattg 300
 gataaaagtg gcacagttca agggatgaca agcagttacc tcgtttggcc aatgggatgt 360
 tctc 364

<210> 12798
 <211> 424
 <212> DNA
 <213> Glycine max

<400> 12798
 agcttatagt tattggaggg agaattttca atccaaaatc aattgtacct ttttghtaacg 60
 aagaattctt tttgcagctt ttatgatgagg agaggttagga gcctccgtaa agcgacacac 120
 aactcccacc gcatatagaa tatcgggcct tgtattggtt agatacctta aactcccac 180
 aagactcttg aagatcgttg agtctacctt ctctccttca tcaaaatttg ataacttcaa 240
 gccaccttcc ataggtgtgt tcacgggatt gcaatcaagc atattaaatt tcttcaacac 300
 ttcttttgtg tagctttctt gtgagacaaa gataccattc ttctgtttct tcacttccat 360
 tccaagtaa tatgacatga gtctcgtatc tgtcatatca aattcacgag acatggactc 420
 cttg 424

<210> 12799
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12799
 agcttccaca tacttggttac ccattttact attntcagct aacagatcat aactacctcc 60
 aaggccaaga tagaccaaatt tggagagatt cccaatctga gatggaatct tccccatgaa 120
 tccagaagag aggtcgaggt gagtcaagga ggtcattgca caaagaaaag aaggaattgc 180
 cataccttca aaataattgt cgctcaagtc aagatatcga agcttagaga gattcccgat 240
 ctgagaggggt actgttccgt cgtaacaac agaactcagg tcaagatata ccaaaattga 300
 gagatttcca atctgaggag gaatcttccc atggaatcca ctatcagaga ggttgagggtg 360

agtcaaggaa gtcattgtcc caaggaaaga aggaattgac atac

404

<210> 12800
<211> 396
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12800

tyccgccacg gagttntccg actatgctct ngtgatgtgg aacttgctac aaaaggagag 60
agcaagaaat gaagagccaa tgggtgatac atggacggag atgaaaaaga tcatgaggaa 120
gggttatgtg cgggctagtt actcaaggga cttgaaattc aagctccaaa aactaaccce 180
aagcaacaag ggggttgagg agtatttcaa ggaaatggat gtgctcatga ttcaagcaaa 240
tattgaagaa gatgaggagg taactatggc tcgatttctt aatggtttga ctaatgatat 300
ccgtgatatt gttgagctgc aggagtttgt tgaaatggat gatttgcctc acaaagcaat 360
ccaagtggag caacaattaa aaaggaaggy agtggc 396

<210> 12801
<211> 401
<212> DNA
<213> Glycine max

<400> 12801

agctcttgag aatatcctta ataattgtga cattatccat ttatggttcc ccaaagaaga 60
tagtatcatc agcaaattgt agtatgttga ctgggatctt tttctttccc accataaaat 120
tgtggtagta gtttttgaa aatactgcc tcacatgcc tgtcaagcct tcagcaacta 180
ggcacaacaa aaaggagacc aatggatccc cttgtctcaa gcctatttga ggtttaaatt 240
cagaagtagg acttccattc actagtatag atattgatgc taatgaaaga cacccttaa 300
tccagccaat ccacttttca ttaaacccea ttcttctcat catgtaaaag aggaaatgcc 360
aagacacaga gtcattgctt ttcaaatca actttgaaca c 401

<210> 12802
<211> 341
<212> DNA
<213> Glycine max

<400> 12802

gtgagccaat tcaaaactata ataacttttt actttttatat ccgagagagt cccgcaatat 60

aacgagacgc tcgaaattga atgttgaagc tccgagccaa ttcaaacgac aataactttt 120

tactcggatg tctgattgag tcccgtgata tatcgagacg ctcgacattg aatgtgtgaa 180

tctctgagca aatgcaaaag acaataactt tttactggga tgtctgattg agtcccataa 240

catatcgaga cyctcgaaat tgaatgttga acctctgagc cgattcaaac gacaataaat 300

ttttactcgg atgtctgatt gagtcccgta atatatcgag a 341

<210> 12803

<211> 444

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12803

ctcaagcttg gtgcatatga attatatgtt gcagcttaaa ggattatggt agattataga 60

ttattatacc ctattgtact aggctaagt tcttctttta tttttctgta tctactatgt 120

tctgagtttt ctgtagaaag ctttctttgc aagctaaggt tgatatatat aagagaagct 180

cattgtccag aaaacactaa agcatttcat ccaaaaatat atctcattat tttctactaa 240

aatcattatc ataatttaga ttatttaaatt ttataatagc attcacatat atcatgtaaa 300

aagatttata gttaaaggta gttttttatg atgaatagct attgtaatac tatecttcaa 360

aaaagctatt ataaatctat aatactatat ctattattgg ggggaaacag ctntcggatga 420

ttgtattaca atatgtcaat attc 444

<210> 12804

<211> 430

<212> DNA

<213> Glycine max

<400> 12804

ctcagcttaa atgcagctcc ttgctgtaca gtgctttgtg gcactttttt gcctaagagg 60

aactataagg cggagaaaat ctctgtttcg atgggcatgg atcattcgaa gactcctgct 120

agctcgagtg accggatact gcacacacat aaactggaag aactgccctc atgccctagg 180

tgtggggtat cacggtacat acacaaggat gatgatgagt gctgaagaga agaagactca 240

tagaagggcc ccctacctac ggtgatgcgg actcattcac ttgtgccaat gtttatacgt 300
 ctctatgctt atggatacga tgctatagac atcttacatg gcatgcacat gagagcaact 360
 gcgatggaat ggtcctgcat ccggatgata gctcctagag gacaaggata tatcatttgt 420
 attcgaattt 430

<210> 12805
 <211> 397
 <212> DNA
 <213> Glycine max

<400> 12805
 agcttgaatc ggacatccgt gtgattattt atgaccattt tattttctca agagctttct 60
 ttgtgcaatt tcgagcttct cgatatgtga tatgcctgaa tcggacatcc gtgtgaaaag 120
 atataccagt tgaatttctc aagagcttcc gttgttcaat tttagcgcc ttaatatgtg 180
 attggcctga atcggacatc cgtgtgaaaa gttatgacca ttgatattt tcaagacctt 240
 ccgttggtca atttcgagcc tctcgacttt ttatgcgacc gaatccgaca ttcgtgtgaa 300
 aagtatatgc catttgaatt tctcgagaga ttccgatgtt aaatttctag cgtgtcgata 360
 tattataagc acgaatcggg cattcgtgtg aaaagtt 397

<210> 12806
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 12806
 acggatgccc gaaagttaga aatatattat acgctccaaa ttgagcaacc ggagctctat 60
 agaaaaagtc acggatcgta actatgtcac acaggaagtc ctattcttgg acataactca 120
 tcgaggacgc tcgataattg cacaacacgg gcctcatcat gcatgcgaat gctoctaaca 180
 ttacgctaag attagcgagg gcgggacgta acatatcgag acgctctata ttgagcaacg 240
 aaagctatcg acgactttga atggccataa cttatcacac ggatgttggg agacggggaca 300
 taactcatcc agacgctcta taatgaacaa ccgaaactct ctagaagttc gagatgacat 360
 gacaatacac acagatgtgc tattt 385

<210> 12807
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12807

agcttcaaca tctttatccc ttccagtttg ctggaactac ttttcatgga cttgatggg 60
 cctatgcaag ttgaaagcct tggaggaaag aggtatgcct atgttggtgt ggtgatgttc 120
 tccagattta cctgtgtcaa ctttatcaga gagaaatcag acaccttga agtattcaaa 180
 gagttgagtc taagacttca aagagaaaaa gactgtgtca tcaatagaat taggagtgac 240
 catggcagag agtttgaaaa cagcaagttt actgaattct gcacatctga aggcacact 300
 catgagttct ctgcagccat cacaccacaa caaaatggca tagttgaaag gaanaacatg 360
 actttgcaag aagctgctag ggtcatgctt catgccaaag aacttcctta taatatct 418

<210> 12808
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12808

nttatgttta gacactgggg ngaattttct aatatatata catttagtgag ataagaaaaa 60
 aagagaaaaga gaaaaagtaa tttttttaat tatctagatc ccactcttca tttaatgaat 120
 cttaagatta aattgataaa attttcaaga atgtatgtat agtggtgtag gtaggcgggt 180
 accatagttg gagactctcc cgcgatgcca aagttgacaa aagaaaatac ccccttttc 240
 atgaacagcg ctcacaatag gtttccaagc ttccagctgt tctcttgtec agatgccagg 300
 tgtattaggg tatctttggc caacgtacaa aacggccaca cgtataatga aacaaaatac 360
 taaagcatta gtacaagata atctttgtgt ggacaaaatc agatccaatt tctagacgtg 420
 ttcagattaa ttacccc 437

<210> 12809
 <211> 394
 <212> DNA
 <213> Glycine max

<400> 12809

agcttacctt tttgggagga ttttttaggt ctggagagga tcaataacaa tgcctatacg 60
 ttggaccttc cagaagagta tggagtcac accactttta acatttctga ttttaactct 120
 tttgcagggt gagctgatat tgaggaggag gaactaatag atttgaggtc aaatcctctt 180
 caaagggaag gggatgatgc aatcctccct atgaaggag caatcactag aaccatgagc 240
 cttacggtag atttctgagc ccatgggcca aggttgggtc caattatctt tgtacatatt 300
 agactaggat gtcattatat ttggctcttg tatttagggc tccatattgt aagtagggta 360
 ccctagaaat ataggatttt tcagcccttg tatt 394

<210> 12810
 <211> 402
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12810

agctcncagt gttttatata gggctttatg tcttcatact tttctctcta gcacaggctt 60
 ttctgtttat cttgggtgata ctctgtctc atggcggtct aagaaataac ccattgtttc 120
 tcgtagtcca tctgaagctg aatatcgtgc tctgccacc acaacttggt agcttcaatg 180
 gctcacttat ctctcaatg atctgcatgt ttctgctaaa caaccagctc tctctattg 240
 agataatcag tccgctttgc aaatcgcagc caatcaagta ttccatgaac gtacatagca 300
 catagatatt gattgccatc tagttagaga gaaagttcaa tctgggtctga ttaattactt 360
 cctgttgctg ctccacaata gcttgccac atctttacga ag 402

<210> 12811
 <211> 454
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12811

ctcagcttag gaggaacctg acagggatgc tagcctacca ttgtagcttc atgacttctt 60
 gaatgggagg aggggttgcgt atctccagta tgatagtgc tttttcggga ttggctccaa 120
 tccccgcagc tgtgatcatt aagctgagga acttgcgtcc acctaccaca aaagtacatt 180
 ttccagggtt gaggcccatg ttgtatttgc atagtccct gaatacttcc tctaggtcca 240

ccacatgttg gggatgctt tgagacttga caactatgtc gtccacacat actttgacgt 300
 ttcatattgat ctgttggtta aagactcggg ccattagtcg ttggatgtc gcgcctgcat 360
 ttttgaggtc gaatggcatg accttgtagc aaaagttagc atcttcagtg atgaatgtcn 420
 gtttctcctg gtctggagaa tgcattctga tctg 454

<210> 12812
 <211> 427
 <212> DNA
 <213> Glycine max

<400> 12812
 agcttgtaat cgattacaca agtatcttta tggattacta tatgagattt tcaataata 60
 atttccaaga gtcacatctg ttcaaatgt tttttgaatg accatcaaag gtctatttat 120
 atatgacttg gaacacgaat ttgcttagag tttttctgaa caaaaagtct tatcttctca 180
 aaaacaaaat tgtcttatcc tctaaaacat tcttggcca aaacacttgc aattcaataa 240
 ggaattattt gagtgttca ttgtacaatc tatctcttctc aagagagatt tcttctctctc 300
 ttcttcatac ttctgaaaag ggattaagag accgaagatc tcttgttgta aagaaatctg 360
 aacacaaagg aagggtgtgc cttgtgtgtt tcagaagttg taaaggattt gcaagatagt 420
 ggtactc 427

<210> 12813
 <211> 461
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12813
 actctataat actcacagct tgtttacccc atgttngaatt tgcttacaat agagcttgtt 60
 atagcactca ctaattgttc tctttttgaa gttgtttatg gttttaaccc actaactcct 120
 cttgatcttt tgcttatgcc taatgtttct gtttttaagc ataaagaagg tcaagcaaag 180
 gcagactatg tgaagaagct tcatgagaga gtcaaagatc aaattgagag gaaaaataaa 240
 agctatgcta aacaagccaa caaagggaga aagaaggttg tcttcgaacc cggagattgg 300
 gtttgggtgc acatgagaaa agaaaggttt ccggaacaaa ggaaatcaaa gcttcaacca 360

aggggagatg gaccatttca agtgcttgaa agaatcaatg acaatgctta caaagttgag 420
 ctgcccggtg agtataatgt tagttccacc ttcaatgtct c 461

<210> 12814
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12814

tgagctcggc ttgagttgaa tacgtaaagc ttgagttgac atatgttttt nttaaggctc 60
 tgctcgactt acataaaagt ctgacttacg agcctattta aaagcttgct taaagacgctc 120
 ttttattaat taattatttt aaaacctagt gaaatactaa ctaaaaaaag aaacttataa 180
 aatttcgtat aaataatgta caaatctaaa aataattgat aaacaaaatt atattgaatt 240
 caagtcgtta aagcacaaag tatataaaaa aaataaaaat agcataatat taaaaaatgt 300
 atggattaga gatgatttac actaatatag ccaaacaaaa attattatta gttaaattaa 360
 caatttttaa tccaattttt ttaatatata attatattat atattnttaa aaaaaatata 420
 tccacaataa tttcatctta gtctactcaa g 451

<210> 12815
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12815

tgctgattac ttcaacattc cgggtgtctt cagtgtgtat ntactgcaaa actctccctc 60
 aaacggtcca ggatacatag gcacctcagt gttgcaaact tctctccatg attttattga 120
 ggttattttc cagaacaacg aaaacaccat gcaatcttgg catcttgatg gttatgattt 180
 ttggggtcatt gggtagcca gcttccttta tttataaaact ttgttttcta ttatcaatat 240
 ttttattagt agaagcaatt tagaattagc ttaagaaagt tctaaagatg ttcattgacc 300
 cttgcagtea tggtttcggc cagtggacag atgctagcag aaaaacatat aatctagtgg 360
 atgccctgac tagacacact gcacaggtaa cttaacatga aagttcccta 410

<210> 12816

<211> 403
 <212> DNA
 <213> Glycine max

<400> 12816

gatccttaag cacctgcagc atgcaagctt taaatttaaa cgacatactt ttctactcgga 60
 ttctctgattg agtcccgtaa tatatcgaca agctcgaaat agaactctga tgctctgagc 120
 aaattcaaac gacaataact ttctactcgg atgtctgatt gagtctgtga atatctcgag 180
 acgctcgaaa ttgaatacgg aagctctgag caaattcaaa cgacaataac tttttactcg 240
 gatgtctgat tgagtcctgt aatatatcga cacgctcgaa atagaactctt gatgctctga 300
 gcaaatcaaa acgacaataa ctttttactc ggatgtctga ttgagtcctg taatatatcg 360
 agacgctcaa aattgaatac cgaagctctg agcagattca aac 403

<210> 12817
 <211> 339
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12817

agcttcgata aataatttcg agcgtttcta tatattacgg gactcagtca gacaaccaag 60
 tgaaaagnta ttgtcgcttg aatatgtcga gagcttcgat attccatttc gagcgtctcg 120
 atatattacg agactcactc agaccaccga gtgaaaagtt attgtcgttt gaatttgctc 180
 agagcttcgg catctgagtg caagcgtctc gatatattac gggactaaat cagacatctg 240
 agtaaaaagt tattgacgtt tgaatttgct caaagcatcg gtattccatt ttgagcgtct 300
 cgatatatta cgggactcga tcagacgtct cgagaaaaa 339

<210> 12818
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12818

ntagttcact gcttcaagta gtgtacgata tgttttttat gaaatttcat tgccaaagag 60
 ttactatcag gcgaagaaga tattgtgttc aatgggtatg gagtatcaga agattcatgc 120

ttgctcgaat gattgcatac tgtacagaca taaatttgaa gaaatgtcca aatgccctat 180
 gtgtggggta tcacggtaca tagtcaagga tgatgatgag tgtagtagtg atgaaaactc 240
 aaagaagggc cccctagcga aggtgttgtg gtatctttca attgttccaa ggtttaagcg 300
 tctttttgct aatggaaacg atgctaaaga catcttacat ggcattgcaa tgagagcaac 360
 tgcgatggaa tgggtccgtca tccggatgat tgctcctagt ggaaaaggat agatcatctg 420
 ttttcgaatt tc 432

<210> 12819
 <211> 284
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12819

agcttcaact acgacctcat tagctatcat tacaccatgg aggatatgtc tgcctttgag 60
 aaaagtagtt tgcctttcat caattaagtg aggcagcaca agagccagcc tattagccag 120
 gactttggac attattttgt agacacacco tatgagagag atgggtctat agtcattaag 180
 agattggggg ctattgggtt tggggatgag ggctatgaag gatgcattac ttcctttggg 240
 gaatctgcca ttaatgaaga attcatcana gaatctgata aaat 284

<210> 12820
 <211> 495
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12820

cctatgttgg tgatatgcta agatggacgt gtggacttga ctaccactct aataaagagt 60
 acaacagatg ttgtgtttga tgatttacgt tttctctctt tcttttatgt tcatatgcaa 120
 tgttcatttt tttctcttat ttcgctatat tctatctctt atttctatat atttgggatg 180
 ggtgtatttg actatctcaa gttcaaattg agatgagaga taacaattta tctaatatct 240
 gtgtcttttt tataacctga tataataatc acattnttat actataatta aataataaga 300
 taaatcgat aaactctagc acaatagata tgcagacgag ataactatta ctaaaaaac 360
 atatagaatt tattaatctt gggtaatagt taaaaaacat caaaagagtg tagtggagat 420

ggtgaacttt taanaagtta atagcaaaag agctgtgagt tgaaatttaa aattaataaa 480
 taaccatttt aaata 495

<210> 12821
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12821

agacacattc ctctgctttc atttactgga agttcaaagg tacttcatct ctctcttatt 60
 ttgattaaac attgtaatct ttatttttat gtgtttacaa cgtacattac attttcatga 120
 tagtattttt atgttacaac ctctactagt tagctaacia gtgtaataata ttataatatt 180
 gttgaattca ttgttttggt ggttccattg gtattttatc taaataccta ttcttattct 240
 ataacatata tggtagtagc tgtaacataa aaattagtta gaataattat tatagctttt 300
 ctctctaatt catattataa ttgtgcgggg gacttacttt cntttaatac atattatact 360
 atgttatatt atcatagtgt gataaattat gtttaatacaa ctgggttacgt atcttttgta 420
 atggataagt catgga 436

<210> 12822
 <211> 177
 <212> DNA
 <213> Glycine max

<400> 12822

gagttatatt tgattgtgta atagaacttg catgctacga ttaaacaacc agttgtcaag 60
 aacatgatga aagccttgta ctttcagttt accgctggag atctaccatt gtaccttggt 120
 gcctttacag gatactgggc ttatgggtct tccacagaag tgtatttgct gaatagt 177

<210> 12823
 <211> 425
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12823

gacctaag tcacctgng catgcaagct tcgataatca atttcgagcg tcttgatata 60

ttactagact cagtcagaca tccgagtaaa atgttattgt cngtttgaat tgctaagagc 120
 ttcgataatc aatttcgacc gtctccatat attacgggac tcagtcagac aaccgagtga 180
 aaagttattg tctgttgaat ttgctaagag cttcgataat caatttcgac cgtctccata 240
 tattacggga ctcagtcaga caaccgagtg aaaagttatt gtctgttgaa tttgctaaga 300
 gcttcgataa tcaatttcga cgtctccat atattacggg actcagtcag acatccgagt 360
 aaaatgttat tgctgttga atttgctaag agcttctata atcaatttcg agcgtctcca 420
 tatat 425

<210> 12824
 <211> 285
 <212> DNA
 <213> Glycine max

<400> 12824
 atcgtctcga tgtattacgt gactcaatca gacatctgag tgagaacggt attgtcgtt 60
 gaatttgctg agagcttcaa cattcaattt ctagcatctc gatataattc gggactcaat 120
 cagacatccg agtaaaaagt tattgtcgtt tgaattttct gagagcttca acattcaatt 180
 tcgagcgtct cgatgtatta tgggactcta tcagacatct gagtaaaaaa gttattgtcg 240
 tttgaaatcg ccaaagcttc aacattcaat ttcgagcgtc ttgat 285

<210> 12825
 <211> 422
 <212> DNA
 <213> Glycine max

<400> 12825
 tcacctgccg catgcaagct tctacaaagg tgtgttctta atttctatga gtaaagctag 60
 tgaagaagaa tgtggcattc acttgtgttg aaagacaagg gcaagccttt gctttactca 120
 aagaatagct caccaaggca cctgttctag ctcttccaga cttttctaaa acttttgagc 180
 ttgaatgtga tgctctgga gtgggagttg gagctatatt gttacaaggt tggcaccccta 240
 ttgcttattt tacttgagga ataaactcaa gcccaagagg tgtggcaatg ctaacaagtg 300
 tctttttaca aaggagaaaa tatggagggt gtctaagagg ggaaatttct ttaataattg 360
 tctttatttc aaaatgtctt ccttcttag ctaacctctt ggaggagaca cttacctctt 420

<210> 12826
 <211> 339
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12826

gacaatatct ntttactcgt atgtctgatt gagtcccgtc atataacgag acgctcgaaa 60
 ttgaatgttg aagctctgag ccaattcatg cgacaatata tttttactcg gatgtctgat 120
 tgaagccggt aatatatcga gacgctcgaa attgaatggt gaagctctga gccaatcaa 180
 acgacaataa ctttnttact cgatgtctga ttgaatcctg tcatatatcg agacgctcga 240
 aattgaatgt tgaacctctg agcgaattca aacgacaata actntttact cagatgtctg 300
 atatagtctc gtaatatata gagacgctcg aaattgatg 339

<210> 12827
 <211> 389
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12827

atgtaatact atatttatct gatgtaggct attattgata aataatattg gattaatgaa 60
 gctcaatatt cttagaaaaga taatgaagtg taaccatact tacctttgaa gtgagtgaag 120
 ttctaccata tgaaaaataa gattaattat aattaggtat caagacttaa gaacctttat 180
 atttaggaat tttgtacatt tattaaagtt tatcacacta atgattatgt gaaaaatcat 240
 cataaaatca aagaattctg aagatcttga tataataaaa aaagtataat aacttgaaga 300
 acgtatttat tgtattgcac tacacaataa atgttactat actgtagtag tgtatatatt 360
 atagtngtat aagatactga ttttttata 389

<210> 12828
 <211> 370
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12828

ngcttaagat aatggtaacgg anataccata tcccgtggta ccttccaaga aagataagga 60
 ccgccatctg gcgagattcc tagacatttt caggaaactg gaaataacta tgccttttgg 120
 agaagctttg cagcagatgc cactctactc aatgtttttg aaagatatgt tgacaaggaa 180
 gcacaaatac attcactatg agaatatcat tgtggaaggc aactgcagtg tttgtatata 240
 gaagatcctt ccacaaaaac acaaggaccc tgggaagtatg actattcctt gttcaatang 300
 tgaagtcaca gtgggaaagg ctctcattga ctntgtagcc aatatcaact tgatgccact 360
 ctccatgtgt 370

<210> 12829
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12829

tactaagcta tttagtecta tttgattctt aattacacac tagaatttcc tctcctgtag 60
 aaacaaaccc tntgagttga ttcataataa cttctttctc taagtcacca ttcagaanag 120
 gcggtcttta gatccatttg gtgaagctcc aaatcaaag agccactaaa gccaacacaa 180
 gccacaaaga gtcctttctta gaaacagaag agatagtctc tttgtagttg atgcaatcct 240
 atcccgcaag ggcattggat agaagaactc cagtagattg ngccagagat gtaagagaag 300
 gccctanggt tctcatgagc cttangatag atttcggacc catgggctaa gtatgtgccc 360
 acttatcttt atacatatnt gattaagatt tcattanttt tgggccttat a 411

<210> 12830
 <211> 454
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12830

agcttggcat tcccattggt ggaaggacct tataagactn tataatcagt ctgatttcca 60
 cagtatccag tagaatatgg tatggaaggt tggttgtggc gacaaaatca aattttggca 120
 agattcttga ctgagtgagg gctgtaagca tttcaaaaaa agattcttgg caatatggaa 180
 ggaacgttag tttattaata atattcaaag aaagattctc atagtataac ccgtgcagac 240

caaccctgga tgggattcag ttntcttctc ttggccaagg gcagaacgaa agccttggtg 300
ctagattctc tgaagtggaa attaagtctg cagtttgccg ttgtagtga gataaaagca 360
ctggcccgtg tggtttgaac ttcaactttt atcaagtagt ttgggaaatt ctaaaacctg 420
atttcacac gttcttcgat gagttcttca ttaa 454

<210> 12831
<211> 298
<212> DNA
<213> Glycine max

<400> 12831

tcatttatcc tatcttctac agccaatggg tgagttccgt gcaggtagtc ccttaaacia 60
tgggcctcac cgtgatagaa aatgagaatg aggagcttat tctactccg gtgcagaaca 120
gttgagagat ctgcattgac tatacgaagt tgaaccaagt taccaaaaac gaccattctt 180
cactgtcatt cattgaccag atgcttgaac acctgtcagg caaatcttac tattgtatac 240
ttgatgggtt ttctgggtat atgcaaaaaca ctattgtctt tgacgatcat gaaaagac 298

<210> 12832
<211> 288
<212> DNA
<213> Glycine max

<400> 12832

catgcaagct tgtgttgac aagttgggtg tattcatata aagatgggtt tgagcttata 60
tgtcattact tagtgggaatt ctacttttat gatgcttgag agtgcccttg tatatcgatg 120
tgctttttgt agtcttgaat ttgatgatag gagctattca agttgtctta ttaatgatga 180
atggaagaga ggacaaaaaa tgtgtgaatt ttgctgtccc ttttttcaaa tcacagagtt 240
gatatctggt tctcttacc caacgtctaa ttgttaattt atgcaagt 288

<210> 12833
<211> 414
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12833

atgacgaggt tgagtcgccg ctgtggctgc ctcactggct tagcttcac ctcataaagt 60
atcctatgca tgcaggtaga tgggctaata ctaggaatgt ctgctaaagt ccactcaatg 120
gctttcttgt gcttcttgag aactatcaac aacttctcgt cttgcttagc agcaagggag 180
gcagagatga tcaactgngaa attttccttg tcctccaagt aagcatatct gaggggtctg 240
gtaagggcct caactctagt gtgggtggtg gctaaacagt gggaggaacc atggtaggag 300
aagaaaaagg ttctcagcc tatacctcat aaagcaagtc agaagtatat gtacctcctg 360
caacatggnr agtgcattct gactctacaa aatcaacatc aagaggtaca acat 414

<210> 12834
<211> 463
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12834

agcttgttct tgactcatct tctccttgaa gtggcatctc caatcatctt tcttcttct 60
ccgttccgct gccattgac ttcaagtagc aaaggactcc attgatgaag aagattgaag 120
gcctacaagc tccacatgga gctacgtcat tgatgcctat agatagtctc ctccaagtcc 180
ccatgtagaa aagcagttct gacatgctcc aactccatat catgtcgatt cataattgcc 240
atcaaaactcc acaatttctg aggtgccttg atgttatagt tgaagatagg catctattaa 300
tcccatanat tgtggcactt atagcttcac cccagaaact ctttggtagt cctacacca 360
aacgcataca cctcacagc tctagaatga tcctattcat cctctcagct agaccatttt 420
gtcgaggagt ctatgccaca atcctatgcc ttttgatacc atg 463

<210> 12835
<211> 278
<212> DNA
<213> Glycine max

<400> 12835

ttctctctct cgaagctctt ctctagatac tgaacctggc tcgcagatat acgtcgtgct 60
ttctctgggt gatgaaagta ctctccatg cactcatccc cattgtcgtg catgtcaaac 120
gcgcggaaga aggagccgtt acacccttc cctccttctg cttcaaaact catcatggat 180
ctcgaacctg aaccagatta taacaaaaac accatccatt agtcataggt caaaaacaaa 240

aattgggtgat agagagggtta tattagggttc tttttttt

278

<210> 12836
<211> 422
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12836

cacctgccgc atgcaagctn ggccaaacca aaatcagcaa ctttaggaca taagtttctg 60
tccaagagaa tatttcccgg tttaatgtcg tagtggatta ttctctgttg gcactcttca 120
tgtaagtaag caatgcctct cgcagtacca actgcgatct catgaagctt tttegaatgat 180
aaggtttgtt tttcgtgaaa cagggtacttc tcgagtgcac cattcaccat gtactcgtaa 240
accagtgtct tcaagtgtct tttegaagcaa aacctatata gacgaactag attaaaatga 300
tggacttttc caatggtacc cactttctgcc ataaactgct catcaattct cttgtcagaa 360
ctcccacgta gaactttcac ggctacgatg gttccgtngc tgaaacttcc tttataaaca 420
ac 422

<210> 12837
<211> 377
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12837

cgccgccacg gagttntccg actatgctct tgtgtggtgg aacaagctac aaaaggagag 60
agcaaganat gaagagccaa tggttgatac atggacggag atgaaaaaga tcatgaggaa 120
gcggtatgtt ccggctagtt actcaaggga cttgaaattc aagctccaaa aactaaccga 180
aggcaacaag ggggttgagg agtatttcaa ggaaatggat gtgctcatga ttcaagcaaa 240
tattgaagaa gatgaggagg taactatggc tcgattttctt aatggtttga ctaatgatat 300
ccgtgatatt gttgagctgc aggagtttgt tgaaatggat gatttgcctc acaaagcaat 360
ccaagtggag caacaat 377

<210> 12838
<211> 275

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12838

 agcttgaat tgaacaacgg aagctctcga gataatcgag tggtcataat atttcacaca 60
 gatgtccgat tcgggggaaat aatatatcga gacgcacgaa attgaacaac ggaagctctc 120
 gagaaatttg aatggtcata acatttcact cggatgttcg atccgggggac ataattttac 180
 gagacgtctc gaaatgaaca accgaagctc tcgacaaatt agaatggctg taacttttta 240
 cgcgaatggt cgantcgggg acataactca tctag 275

<210> 12839
 <211> 447
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12839

 actatgcaaa gagtatccaa ggaaaatttc ttcattctgac ttagaatcaa actttcctaa 60
 gttttctttt ccattgttta atacaaaaca cttgcaacca aaaacatgaa gatgcgagat 120
 atttgggttc ctaccattaa acaattcata tggagttttc tttaaaatga gtcttattaa 180
 atccctatcc atgatataac atatagtatt aacgaattca tccccaaaat attttggaag 240
 aggagtatca tataataagg ttctagcaat ttcttccaaa gacctatttt tcctttcaac 300
 aactccattn tggtgagggg ttctaggtgc agaaaagtta tggtcaatgc catgtttttc 360
 acanaataaaa tcaaattctn ntatttcana ttcactccca tgatcacttc taatagatat 420
 aattctgaga attttcttat tttgaat 447

<210> 12840
 <211> 512
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12840

 tgccgcgatc aagcttatcc ttattgttgt aggtgtggtt catgtctgtg taaatagaca 60
 aataattcat ttctagaata gttcattntt ctttaaaacg tggtttataa agatcaaaac 120

attttcaaat cttggttttg gttcaaaaaca gatttttttt tccctttcat ttgttcacca 180
 aaaaatgcac acgtttttta cttcatttaa ttattattga ttaaaacatt ntcattgttt 240
 gatttgatc aacacacggt tgattntatt tcttctttca ttactcacc aacaattgga 300
 acatatataa tcgtattata taagaaggga aacacattta aatttttgca ttaattttta 360
 taanataatn ttattagaa atcanataac agtataaatt aatatgaaat attgtacatt 420
 tatgtaagaa gatnnntggg ttttaatttc catcaagaat tctacagata tgctgttatt 480
 ataccagaaa ttcaggatta attaaactta ct 512

<210> 12841
 <211> 378
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12841

agcttctagt ccttgtggat cttcttcctt cttattcttg aactacactt gtagggttag 60
 cttgaacttc acctgtaacg tcatcaagtt ctggttcaat caatgttttt gtgttgatat 120
 gcatcattgg cttcttgctt ggatcatggt tgctcttcat ccatgtgttc agtcatcaa 180
 attgcacatc cctactgaaa actattcgat tcgttcttgg atttaagagt ttgtatgacc 240
 ctgtgggatt atagccaaca aagatcatgt gttcactctt gtcacccaat atcttcttgg 300
 tatgatcag aatatgnttg taacatgttg agccaaaaac tctcatatgc ttcacagatg 360
 gtgttttccc tgaccata 378

<210> 12842
 <211> 446
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12842

caagtgttg anagaatcta tgacaatgct tacattgttg agctgcccgg tgagtataat 60
 gttagtcca cttcaatgt ctctgatcta tctctttatg atgcagatgg agaatccgat 120
 ttgaggacaa atccttctca agagggagag aatgatgagg acatgaccaa gagcatgggc 180
 aaagatccac ttgaaggact tggatgacct atgacaatgg ctgagcaag gaaagccaat 240

gaagctcttc aacaagtgt gtccatacta ttggaataca agcccaagtt tcaaggagaa 300
aagtccaagg atgtgagttg tatcatggcc cacatggagg aggactatat gacaccactt 360
tgcttcaatn ttagagtggg tagtttggct aaataatggc ccaatccttg taaaagtggc 420
tgaccaaaaa tatagtttgt gtaatc 446

<210> 12843
<211> 433
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12843

tgcgacttga taatggagac acatgaacag cgctaggcaa cgacattcat ggcgctccga 60
acaaaggtgg agtatggagg attgccttga ggggccgcac ttangcaatc atgaaactaa 120
gctccaaact cgaaagtgga ggacacatga acaaccctaa gcaataatat tcatgtggct 180
ccgaanaagg atgagaatgg aggattgcct tgagggtcct ctcttangca atcatggaac 240
acagctccaa actcgaaaac ggaggacaca tgaatgaaac cgcaattcat tcacgtggct 300
ccggaacagg atgagaatgg aggattgcct tgagggtcct ctcttatgca atcatggaac 360
acagctccaa tcatggaaca cagctccata ctcgagaacg gangacacat gaatgacaac 420
gccattcatt cac 433

<210> 12844
<211> 462
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12844

tggacttacc ttgaatcaat tcctttgata gcccttttga gcctattntc ccctttcttt 60
gttttgaagt tcattacaag ccttaagtga aaaaccatga taccacetta cccttaagga 120
attntggagc tttggaattg ttctgggaat aagctgggtg ttagtgctta gctntactga 180
gttttaaaag attggctaaa attttgtaa aacataagca cttatacaat gaaggaaaagc 240
tggagttgct gcacatgatg tccaacgtta tgtcaaggaa tcagatcggg ctgcacaatg 300
cacaaggcaa gataaaatgt caaatgaaga attgaagctg caggatccac gatgtcggat 360

acaatgtcca ggacatcctg cccganaata ctggacacat aaatctgtta tatctttaac 420
agaataatgt gcagttagca acanaattat gcgatctatc tt 462

<210> 12845
<211> 282
<212> DNA
<213> Glycine max

<400> 12845
tcggatatct gatcgagtc cgtaatctat tgagacgctc gaaattgaat tctgaagctg 60
tgagctaatt caaacgacaa taatgttttg catggatgctc tgattgagtc ccgtaataca 120
tcgagacgct cgaaattgaa ttctgaagct ctgagctaatt tcatacgaca ataaactttt 180
gctcggatgt ctgattgagt cccgtaatct attgagatgc tcgaaattga attttgaacc 240
tctgagctaa ttcaaacgac aagtaacttt tactcggatg tc 282

<210> 12846
<211> 423
<212> DNA
<213> Glycine max

<400> 12846
ctgcgcgatg caagcttata attcaatttc gatcatctcg atatattacg ggactcaatc 60
agacatctga gtaaaaaagt tattgtcggt tgaatttgct gagagcttca acattcaatt 120
tcgagcgtct cgatgtatta cgggactcaa tcagacatcc gagtaaaatg ttagtcattt 180
gaattagctc tcagcttcag aattcaattt cgagcgtctc aatagattat gggactcaat 240
cagacatccg cycaaaaagt tattgtcggt tgaatttgct gagagcttca acattcaatt 300
tcgagcgtct cgatgtatta cgggactcaa tcagacatcc gagtaaaatg ttattgtcat 360
ttgaattatc tctcagcttc agaattcaat atcgagcgtc taaatagatt atgggactca 420
atc 423

<210> 12847
<211> 468
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12847

agcctttatc tatgggttcc tatgggtggtg atcttggtct tgactcatct tctccttgaa 60
 gtagcgtctc caaccatctt tcttcctttt ccattccact gccattgate ttcaagaagc 120
 aaagcactcc attgatgaag aagatccaag gcctacaagc tntacatgga gctatatcat 180
 gtgggtatcaa gagcattttc atctangtga tgttcttttg attcctctat ctttttggtt 240
 ggtcaattca ctataattcc ttgtttctca tcttcttctc catgtatctc ctcaattttc 300
 ttgtagtatg gtgttggtta gtgtagatca aaaaaataa acccgataaa tcttagatct 360
 aactcgtctc tngcatatct atgggtgcaa atttatagat aaactcttga atcatgtttg 420
 tgttgattta ggtctatcat ttttantata atatcttggt tgaacctt 468

<210> 12848
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 12848
 tgtgttctcc cttgtagaac tactaactgc agtaacagtt gcagcccaac tattcggtag 60
 tgatgacaat agaatcatct catctctaaa tttaatctgc actgactcca actgggcaag 120
 aatagtatta aattcattaa tatgatcagt tacagagata ccttctctca tcttgagggt 180
 gaacaaccaa cacatcaagt atactttggt ggctaccgac aacttctcgt acatatctga 240
 taactcttc attagccta caatagtctt ctcgtttacg atgttgaacg tgacattctt 300
 agctaattgc aatctaata tgccaagagc ttgtcgatta gcaagttcca ttcttcttgc 360
 ttcatgtcgt ctaacttaac ccttgatat 389

<210> 12849
 <211> 293
 <212> DNA
 <213> Glycine max

<400> 12849
 tagtttaact attcacacgg atgtccgatt cgggcgcata atatgtcgac aggctcgaaa 60
 ttgaacaaca aaagctcttg agaaattaac tggtaaaact gttccacgga tgtccgatat 120
 catgcgaatc acatatcgag acgctctaaa ttgaacaact gaagcttctg acaaatcaaa 180
 ttggcctaac tttcacacg gatgtcccat acaggctcat aatatatcta tacgctctaa 240

attatacatc agaaactctc gcgacatgca aatagtcata accttttcaca ctg 293

<210> 12850
<211> 363
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12850

accttgggtg taanagttat gtatctttga attgctcgag agcttttcacg tttcaatttc 60
gaacatctcg atatattatg cgcccgaaac atacattcgt gtgataaatt atgaccaata 120
gaattttctcg agagcttccg ttgttcattg tcaagagcct ctatattgga tgcgcctgaa 180
tcggacatct tgagtaaaag ttatgactat ttgtattatt aagagcttac gtgccaatt 240
ttgagcgtct agatatgtga ttctcatgaa tcggacatcc gtgtgaagag gtatgactat 300
ttgaatttct caagaccttt cgttgttcaa ttttgagcgt ctcgatatgt gattcgcccg 360
aat 363

<210> 12851
<211> 365
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12851

cgtgcctctt cagctctgga atatgaatgt agcatataga tcctaagacc cttangtgct 60
ctgctgatgg ctgttttccg ttccaagctt caattggagt cttgtctttt acagacttag 120
ttggacatct gttgagtatg taaacagcaa tgtggactgc ttcaccccaa aatgtgttag 180
gtagtagtct cttcttcttg agcatcgatc tagccatctc cataaactgtg cgattctttc 240
tctcagacac tccattntgt tgaggagaat atgcgactgt aagttgtcgc tcaatgcttt 300
cactctcaca aaatctttca aactcgcgag aggtgtactc tttgcgcgca tcacttctta 360
gtact 365

<210> 12852
<211> 369
<212> DNA
<213> Glycine max

<400> 12852

attctcttaa ttgccttaag cctcaagcgt agtatcgctt gacgatgtcg gcgttcacgg 60

gtgaatgtag ttctctgca tccatgtttg tgagcacaaa ggcctctcg gagaaagctt 120

tctttactac gaagggccct tcatagtttg gggcccaactt tcccctatgg cttttaaggc 180

atgagaagac tttcttcagc accagggtccc cttcactgaa cttgcgaggg tgtaccttct 240

tgtcgaaagt gttcttcacc cgtctctggg acaaacgccc atggctcata acggctagac 300

gcttgccctc tatgagaatg agctgatcaa aatgcgcctg gtcccactct gaatccttta 360

atctggact 369

<210> 12853

<211> 310

<212> DNA

<213> Glycine max

<400> 12853

agcttcccat agttctaat atttcttcta cagtagcttg agagacctaa aaatcctctt 60

aattctttga ctgtcttagg tcttgggcac tgttggttg ccttaatttt atcaggatct 120

ggatgcaccc ctttggcaaa aatcaaagt cccacgtaat tgattttggg cgtgccaaag 180

ctacattttt tgtagttgag tgtcaagccg tgttcttgta gtattttag tgtagtgtgc 240

agacattgaa tgtgttctga ccatgtattg gtatagacca agatgtcatc aaagaaaaac 300

aaaatgaact 310

<210> 12854

<211> 332

<212> DNA

<213> Glycine max

<400> 12854

tgctcttttg ctcttttttt ctgaacccaa atcataccac aggtttggga tcttaataac 60

ttgtgagaaa aaaatccatg gggtaaattg attcaaagta aaactcaagt aactccattt 120

tgtatcttgg atctaaaaca gtagcaactc ctatgatcac atgaatgaca ctccaataag 180

aatcaaatgt gtctaacatc ttttttgcca ttttttgaat cacttcatta ggggaattga 240

cccattcaaa taaagccatc ttgatctcac aaatttgagg aaaataaatg ttagcagttg 300

gatattttgt gectgaaatc atttatgtaa ta

332

<210> 12855
<211> 324
<212> DNA
<213> Glycine max

<400> 12855

agcttgtagc aaatgcattt ctttataact tttagctcgg atatccgatt gagtcccgta 60
atacatcaag acgctcgaaa ttgaatacag aagctcttag caaattaaaa cgacaataac 120
tttctactcg gatgtccgat tgggtcacgt aatatatcga gtcgctcgaa ctgaatacag 180
aaggtgagaa ctaattcaaa cgacaatgac ttttaactcg gatatcccat tgagtcccg 240
aatatatcaa gatgttcgaa atggaataca gaagctgtga gaaaattcaa acgacaataa 300
ctttttactc ggatattcga ttga 324

<210> 12856
<211> 403
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12856

ntgagcaaat tcaatcgaca ataacttttt tactctgatg tctgattgag tcccgttaata 60
tactcgagacg ctccggaattg aacgccgaag ctctgagcaa attcaaacga caataacttt 120
ttactcggat gtctgattca ctcccgtaat atgtcgagac gctcgaaatt gaataccgaa 180
gctctgagca aattcaaacg acaataactt ttactcogga tgtctgattc agtcccgtaa 240
tatatcgaaa cgctcgatat tgaatgttga agctctgagc aacttcaaac gacaataact 300
ttttactcag atgtctgatt gagaccctc atatatcaag acgctcgaaa ttgcataaccg 360
aagctctgac aataactcaaa cgacaattac attttactcg gat 403

<210> 12857
<211> 334
<212> DNA
<213> Glycine max

<400> 12857

agcttcgata atcaatttca tcgtcttgat atattactag actcagtcag acatccgagt 60
 aaaatgttat tgctgtttga atttgctaag agcttcgata atcaatttcg accgtctcca 120
 tatattacgg gactcagtc gacaaccgag tgaaaagtta ttgtcgtttg aatttgctaa 180
 gagcttcgat aatcaatttc gaccgtctcc atatattacg ggactcagtc agacaaccga 240
 gtgaaaagtt attgtcgttt gaatttgcta agagcttcga taatcaattt cgaccgtctc 300
 cattatttac gggacttaat cagacatccg agta 364

<210> 12858
 <211> 329
 <212> DNA
 <213> Glycine max

<400> 12858
 agcttattaa aaatatgtat actaaaacaa tatacatgta acacctaaaa gtttaaacaa 60
 aaaatattgc ttcaaaacgc tttaatttaa tttatttttag aaatacacat cacttttttt 120
 aaccgttact tataaataat aaaaacaact ttctatacta tttttttaca aaacaaaaatg 180
 tgatagttagg aaaatgctaa atagtgtcat gaaattaaaa taaatgcaaa tgtagagtaa 240
 ttcaatttct atacataaat aaaatgaaac ttgcagtgtc acagagaaat atatggatac 300
 aacccataat agtgtgataa taaacaaaa 329

<210> 12859
 <211> 273
 <212> DNA
 <213> Glycine max

<400> 12859
 agctttctaaa tggatctctt cttgctcact tagtttcaac ttcttttctt ctccaacccg 60
 atcaatagag aagttgtagg tctttacagc ccagtaggct ttgtgctcta tctctacagg 120
 aagatgacat gcctttccaa agacaacca ataaggagac attcctatgg gtgctttgta 180
 ggcaatctta tgcgcccmaa gagcatcatc ctgectagtg ctccaatctt tgtgtgtggg 240
 ctgcaccatc ttcttctga tgattattat tcg 273

<210> 12860
 <211> 333
 <212> DNA

<213> Glycine max

<400> 12860

agcttcttat tcttatatta gttttaaaaa tattcaataa ttttcattct aatgatagaa 60
ttcaacttga atttttaact tatttttatt gagtctcatt ttatcttttc ccacacacaa 120
caattcaaat tttgacttgg gaaaattatt ttccaatga ttaagcaacc ttgcttgtag 180
tcatttatac aagcaactta tgtaagcatt ttaaagaatt cattaatttg ttctaatagt 240
attctcaggt cagttaacta caaacaatta tgattctctc aggacacaca tattctcctt 300
gattctcttg aaattgaact cgttatgtac ctt 333

<210> 12861

<211> 335

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12861

ntgaaatgga cattgaggtg tctaaatgga tctttgttaa gtggattaag gtataagaag 60
atagcacatg aggtagcaat cacaggtat gtagatgcag attttgcagg aaatgtagac 120
acaagaaagt ccttaactgg atatgtgttt actttgtttg gagcaacaat cagttggaaa 180
gcaaatcaac aatcagttgt tgctctttca acaactgaag cagagtacat ggccttagct 240
gaaggagtga aagaagcaat ttggctaaaa ggaatggtat atgaactcgg aatagcacia 300
ccttgtgcac aattactgtg aagtcaaagg ccatt 335

<210> 12862

<211> 372

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12862

tggagaaggt ggctntggac cagtattctt tgtgttatat aaaactggta tcttgaactt 60
cttctatttt cctttaaaac tttctaaata tagcagaaga ttatttttca gggaacattg 120
atagatggga aagtgatagc tgtgaaaagg ctttcaaaga agtccaaaca agggctggat 180
gagttaaaaa atgaggtggc actgattgcc aaacttcagc accgtaatct tgtaaagctt 240

cttggctgct gcattgaagg agaagaaaa atgttaattt atgaatacat gccaacctc 300
agcttggaact gctttctttt tgagtggacc ccttacgatg ttattctaaa catcttagat 360
aatcagcata tt 372

<210> 12863
<211> 328
<212> DNA
<213> Glycine max

<400> 12863
agcttctaaa tttttatttg atgaagctct gataccactt gttggacaag tggccttaga 60
tatcttaaga agggaggggg ttgaattaag ataccacaaa ctatttcccc aattaaaaat 120
tttactcttc tttaatgaaa atttcaatgc actcttatta tgaattattg taagataatt 180
caaactaaac ttctttaatg ccaaagataa acaacaataa ataaagaatt ttaagagaag 240
agaaagtgea aactcaggtt ttttactagt tcagccacgc cctgtgecta cgtctagtc 300
ccaagcaacc cgcttgagat ttccacta 328

<210> 12864
<211> 373
<212> DNA
<213> Glycine max

<400> 12864
tgcttacaag attgacttgc ctagttagta ttatgtaagt gccactttca atgtgtctga 60
tctatctctt tttgatgcag atggaggagc cttggatttg aggacaaatc cttttcaagg 120
agggagtgat gaagacataa ccaagggcaa ggaccatgaa gcacttgaag gtcccatgac 180
cagaggcaga cttaacaag cccaacacat catagagaca aggctgggtca tttgtatagc 240
tgtcattgat gatgattgaa ggcccaagtg gagaagatg aaagcccaca cgcagaggct 300
ctaccaagac tactaattgt tgctgaaggc gcatactaac ttgaaggccc aagctaaata 360
agtgtttagt tat 373

<210> 12865
<211> 328
<212> DNA
<213> Glycine max

<400> 12865

agctttgagc caactcttac gacaataacc ttttactcga atggettgatt gattcccgta 60

acatatcgag acgctcgaaa ttgaatgttg aagctctcat ccaattcaaa cgacaataac 120

tttttactcg gatgtctgat tgagtctcgt catatatcga gagcttgaa attgaatgtc 180

gaagctctta gccaacacaa acgacaataa ctttttactc ggatgtctaa ttgagtcctg 240

taacatatcg agacgctcga aattgaatgt tgaagctctc agccaattca aacgacaata 300

actttttaca cggatgcctg attgagtc 328

<210> 12866
 <211> 330
 <212> DNA
 <213> Glycine max

<400> 12866

agcttcagat atgttcctta tgcttcattg aaactcggcc aaaatcggtta agggaacctc 60

ggatccctgc tatatacaat actataagga attccatgca acctagctac ttgcttgatg 120

tacaaatcca cgagtttttc cgttctatac gatataata cgggaataaa atgagcagat 180

ttgtgtgagtc gaactactat gacccacaca gcatcatgtc cacaactagg ctgagctcaa 240

ctaaatacag aatccatata tatgtctctc cagcttccat tctggaagtt acaatggcta 300

cattttttgct gatggatact ggtgtacaga 330

<210> 12867
 <211> 320
 <212> DNA
 <213> Glycine max

<400> 12867

acctgttcga aagagtgtct gcccttcttg aagatgccca ctgacgaatt aactccttat 60

cttcttcaag ataatacatt tttactcgtt cattgaaatt ggccattca tctacagtac 120

attaatgaca tacagtaaat gagtgcacat gtactaaaga agggtagaaa tgtatggaag 180

catataaaat actcaccagg atatatcttt ttcaggtaga ataaaattga tattccatct 240

tcattttctt tattgagttc ctcacagaa tataacaacat cttctttgaa atatggtgtc 300

agaacactga agcaatactc 320

<210> 12868
 <211> 360
 <212> DNA
 <213> Glycine max

<400> 12868

tcaaccacag cagaacaatt atgacctctc caacaacaga tacaacctg gatggaggaa 60
 tcacctaat ctcataggtg ctgacctta acagcaaca cagcagcctg ctctctctt 120
 ccaaaatgtt gttggcccaa gtagaccata cattctcca ccaatccaac aacagcaaca 180
 gcccagaaa taaccaacag ttgaggcccc tccgcaacct tccctcgaag aacttgtgag 240
 gcaaatgact atgcaaaaca tgcagtttca acaagagacc atagcctcca ttcagagctt 300
 aactaatcag atgggacaat cggctacata attaaatcaa caacagtgcc agaattctga 360

<210> 12869
 <211> 459
 <212> DNA
 <213> Glycine max

<400> 12869

tataaaactc agcttcttac atagtccgcc tttgcttgac cttctttttt cttaaaaaa 60
 gaaacattag gcataggcaa aagatcaaga ggagttagtg gattaaaacc ataacaact 120
 tcaaaaggag aacaattagt ggtgctatga acagctctat tgtaagcaaa ttcaacatgg 180
 ggtaaacaag cttcccaagt ttttaagttc ttctcaaaa ctgtcctaag caaagtctcc 240
 aaagtcctat taacaacttc cgtttgccca tcggtttggt ggtgacaagt ggttgaaaat 300
 aacaatttag tgcccaactt gctccacaaa gtctccaaa atttttttag gaacttagag 360
 tcctatcac taacaatgct ccttggcaga ccatggagtc tcacaatctc cttgaaaaac 420
 aaatcagcca catgggaagc atcatcaact gttttacat 459

<210> 12870
 <211> 398
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12870

atccaaaaa tgtgagtgcc atcaccttga gggttgcaa gcaaatgaa gtgcctccac 60

cagtagtcat gatgcaagct ccattggagc ttgtaggcct aggatcttct tcatcaatgg 120
 attcctttgc ttcttggaag ataaatggca gcggaatgga gaaggaagag agagaggaga 180
 cgccacttca aggagaagat gagtctagaa gaagctcacc accataggag gccatggata 240
 agagcttggg ggaagaagga gatgaatgaa gggagaggga gagaagagca cgaaattttg 300
 tgctcaaaaa gagctctgaa atctgaagtt aatattcaaa tgatcaaagn tcaaaaaaat 360
 gcacacacat gacctctatt tatagcctaa gtgtcaca 398

<210> 12871
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 12871
 tctcgtcatt atatctagca gtctttcact tgatcttgag gataagttgt tgcttgtttt 60
 gagaggccaa aagaagttgt tgcttctcgt cattataatt ctctctttga tgcattgttg 120
 gatagcctct ctagagttct tgaccgatgc attgagacta accttgttct taactttgaa 180
 aattgtcatt ttatgggtcca tgaatgtata gtcttaggac atttgggtct taatagaggt 240
 attgaggcca ataaggccaa gatcgatgtt attacttttt ttctttacct cgcttctgtg 300
 taggaagtac tttcttttct tggacatgca tgtttttaca tgagattcat ccaagaattt 360
 agcaagattg ccttgccatt attcaagctt ct 392

<210> 12872
 <211> 327
 <212> DNA
 <213> Glycine max

<400> 12872
 agcttagaga agatacatte tctcaataa ttcgtcaatc aactcatcca ctgttggaat 60
 tggaaaacta tctttgatag ttattgcgtt aagagctcta taatccgtac ataccgccca 120
 cgaaccatct ttcttcttca caagaattat tggggaagag aaaggacttt tgctgggttg 180
 tataattctt tcttgcagta tacctgccac taatttttct atttctctct tttggctatg 240
 aggataacga tatggcttta ctttaactgg tactgaatct tccattaatg gaataaaatg 300
 atcttgtgct tgaggagggtg gcaatga 327

<210> 12873
 <211> 331
 <212> DNA
 <213> Glycine max

<400> 12873

```

agctttgata taccaccttc gtctccacca tcattttagt tttctcttta ttttaatat 60
agtagtacct tgatttcacg ccgtgtatct cgctatatta ttatgacatt tgaacaattt 120
agtaactctt tatttgcatt gtgtgtttga acaattatga attatgttat atgactatgt 180
gatttttcta tatatttgat ctatgcattt ttcttgcttc atgattagtt tatatttctc 240
catgattggt gtgtgaatga ttagttgtat ttgtatgttt cataacttgt acgcactttg 300
gctttttggt gatgccaaag ggggagagaa a 331
  
```

<210> 12874
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12874

```

gagttctctt acattaaaag atcttctctt ttgtttggaa gaaaaccatc atcctccact 60
tcactagagg aactatgaga actcttagat gactcactat ccacctctcc attctccaac 120
ataatcatgg tccttttggt aggacattgg gatgcaatat gaccttttc caaacaatta 180
aagcatttaa tggaactagt tatattggga aggggttgag taggagaagt aggattacat 240
cttgaagact tcctttcaag atgctgtgaa gaagaaccct ccttcttaga agtgtcttta 300
tccttccaat ttgaaaggt agtcttcttg taggtttggt tcctcttcaa ttgttgctcc 360
actttcatag tcctatgtan taagtcaccc atgttgttgt agctttgaag ctctacaaca 420
tcttgaatgt ccctattc 438
  
```

<210> 12875
 <211> 364
 <212> DNA
 <213> Glycine max

<400> 12875

ttcttgactc atcttccctc tgacatgttt tcttcttcac ctttctcctc tctccattac 60
 gctgcctttg atcttcaaaa aataaaggac tccattgatg aagatacaag gcctacaagc 120
 tctacatgga gctaaatcat gtgggtatcaa agcatcttca tctaagtgat tatctttagt 180
 tatctctatc ttttgatcag tcaattcact ttaattcctt tctttatcga ataatccatg 240
 tatctcttcc attgaggatt gaggtgtgtt aaagtacata acaaaaaataa accgattaaa 300
 tcttagatct acacttggtc ttgcatttct atgggtcaaa atttataaat ccactattaa 360
 atca 364

<210> 12876
 <211> 330
 <212> DNA
 <213> Glycine max

<400> 12876
 agctttaaga tacttctttt acttgcatgt agtgtgttag tgcttagctc taccgagtgt 60
 ttaaaagatt ggctaagatt ttgttaaaac ataagcactt agacaatgaa ggaaagctgg 120
 agttgctgca catgatgtcc aacgctatgt caaggaatca gattgggctg cacaatgcac 180
 aaggcaagat aaaatgtcaa atgatgaatt gaagctgcag gatccacgat gtcggataca 240
 atgtccagga catcctgtct gaaaatactg gtcacataaa tctgttatat ctttaacaga 300
 ttgtgcagga tccacgatgt cggtatacaat 330

<210> 12877
 <211> 402
 <212> DNA
 <213> Glycine max

<400> 12877
 tcatgagaga gtcttagatc agattgagag tttattttat agctatgcta aacaagccaa 60
 ctaatggaga aagaatgttg tctttgaacc cggagattgt gtttgggtgc acatgacaaa 120
 agataggttt gcggatcaaa ggaaatcaaa gcttcaacca aggggagatg gaccatttca 180
 agtgcttgaa agaatcaatg acaatgctta caaagttgag ctgcccgatg agtataatgt 240
 taattccacc ttcaatgtct ctgatttate tctttatgat gcatatggag aatccgattt 300
 gaggacaaat ctttctcaag agggagagaa tgatgaggac atgaccaaga gcaaggtcaa 360

ggatccactt gaaggacttg gaggacctat gacaagggt ag

402

<210> 12878
<211> 420
<212> DNA
<213> Glycine max

<400> 12878

tttaaataagg ctctgtgggcc aagccaggct tttatgtatg ccgagccgag ccgttaaaaa 60
aagccatga caggtaatga gctcaagcct tacgtattca actcaagcca agctcaagcc 120
tagtaaaagt tggcctggct tggctcattt tcacccctag ttgcgacata attcatataa 180
agcataagaa taacaagcta aaagcctaag aataacctac tttctcagg aacaaccgct 240
ccaattcgtg ctggaatctc ttttcatatg catagtagta gtagtagtaa taggttttta 300
tacattgaca tgggcttgga cttgtcgtga cacccttact taagtggggc tccttctttc 360
aatcttggtt gccactgtc ttcacttgc taagtgatgc ttaaacgcct aaattggctt 420

<210> 12879
<211> 331
<212> DNA
<213> Glycine max

<400> 12879

agcttctatt ctcaattttt agtgtctcga tatattacgg gactcaatcg gacatccgag 60
taaaaactta ttgtcgtttg aatttgetta gagcatatat tctcaatttc gagtgtctcg 120
atgtattacg tgactcaatc gaacatccga gtaaaatgtt attgcagttt gcatttgcaa 180
caagcttctg atttcaattt ggatcgtctc gatctatgat gggactcaat cggacatccg 240
agttaaaagt tattgcgggt tgcatttgc acgagcttcc gctttcaact acgagcgtct 300
tgatatatta ctggactcaa tcgaacatca g 331

<210> 12880
<211> 345
<212> DNA
<213> Glycine max

<400> 12880

tgccgcgatg cagcttgagg gattcagttt tatttatattt gccggagatg tcgatgatag 60

aaaaagtact accggacttg tttttttat gggcgattga ggttttacat ggaggtctaa 120
 gaagcaaggc attgtgacac tttctactag tgaagccgag tatgtatgct gcaacttctt 180
 gcacatgtca tgccatttgg ctaagaagat tgttggagga acttcagttg ttgcaaaagg 240
 aaagcacaaa gatctatgct gataatagat ctgccaaga gcttgccaag aatccggcgt 300
 tccatgaacg aagtaagcat atagatacaa ggtatcattt catta 345

<210> 12881
 <211> 331
 <212> DNA
 <213> Glycine max

<400> 12881

agcttcatta agatttttcc tcaagaagct tcctcgtggc ttctttgaga agctagatcc 60
 ttatctaccc acacccctct attaactaaa ttaacctcct tgaaaataat tacgaataaa 120
 aataatgcaa caaataatca aacatcaaac ataattacta ataatatata aatatatata 180
 tcaggggtgtt acaactctcc caccctttta gaaatttcgt cctcgaaatt taccttactc 240
 aaacaaggat ggggtgagctt atcgcattha actttctaata tcccatgtgg catcttctcc 300
 tgatgcacct ccccatgaca ccttgaccaa t 331

<210> 12882
 <211> 465
 <212> DNA
 <213> Glycine max

<400> 12882

ttagaggcat tatctttatg gatctaaatt tgaggtgttt agtgaccata agagccttat 60
 ttacctgttt gataagaaag aacttaacat gagacagacg agatgggttat agttccttaa 120
 gggttacgat tttgagctta gctatcacc aagttaagcc tacgtattac ctgatacctt 180
 caataaaaaa tcccttttagg tgtttgcttt gatgggttaa gagttagata tcttatagtg 240
 atttagagac atgagtttag catgtgagat cacccttggt agcattaagt tgggtatggt 300
 gatagtcact actgagctct tgagcgagat ccaggagggt tgaactctga ctccattctt 360
 gttagcccaac tttaggtcta tagctattgg gagagagagt atttttatag tgggacttga 420
 tggagtcttg agattcaatg atagggtgtg tggttcctagt gtacc 465

<210> 12883
 <211> 558
 <212> DNA
 <213> Glycine max

<400> 12883

```

ttagcaactc tttctttttg tttagtcaaa acttctaata ctcttaaatct ctctcatct 60
aatcaacca actcatctga catcattttc caataatggt cgattggaat gtccatttgc 120
ttttgtaccc tggctgattg caaatgtatt tcgacgggaa gtacagcacc atgtccataa 180
gtcagtcaaa atggggtagt attagttgat tccttaggag aatttctaca tgcccataga 240
acttgatcta acgtttttatt ccaatttctt ggcttttggg caatgtgttt tttaatcaag 300
ttaattacaa tcttatttggc tgcttcgacc tgaccatttg ctgogcgta atatggtgtt 360
gaggttaata attgaaagcc agtttttttg gcaaattctt gcatttttcg tccagtaaaa 420
actgaacctt gatcagtggg aattgtttca ggaataccat acctataaat aatatgattt 480
tgaatgaaac taattactgc ttcctgatca acatttgga aagggactgc ttccatccat 540
tttgtaagta atcgatac 558

```

<210> 12884
 <211> 522
 <212> DNA
 <213> Glycine max

<400> 12884

```

taacagcaat aaaaagcacc aaagtaattc atagatttac tcacattaac taccacaagc 60
acgattgaca gtgaaaaatc ataagatttg atttaatgcc taattgcaca cctgacatcc 120
agtagatcaa ctctaactca tgatgataag aaaggaaaca tgcaacaaca caatttcatt 180
accttctct atgaaagct gaattgatct cttctctaac tcaacagcat gcttgctaag 240
ttcaactgag gacagggagc gaagcactgc caaaggatga gatatcagct atataaaata 300
tcaagaactt cataagaaag catttgaggg attattttta ggttcttgga catactttgg 360
atatattctt ctgacttga ttggtccaat ttctcaaaa acatctgcaa ttgttggtat 420
cgctctttcc agtgcaaat ttttaatccc ttgggattac caatggtagt agggccagaa 480
aaagctgtca cataattgga ctcaactggt gctaacttca tg 522

```

<210> 12885
 <211> 554
 <212> DNA
 <213> Glycine max

<400> 12885

```

tcacatggag ctacatcatg tggatcata gctcaccatc aaaacttggg gtgttacaat   60
caccaccacc accaccatca atgtctctgc caccatcatt gtccctgcc aaccatcat  120
tattaacaat accacctctg tcattgccac cacaaccact accaagggtca ttgcaaccac  180
caccacaccg ccatcaccaa tatcgtacc tccaccaccc caccatcgac attgctacca  240
ccccactat cgctgccacc acctaaagtg acaaattacc aagaagagga gttgaattgg  300
ggttttgaaa actttttgat cctttgaaat aaaagggtta tgatgatatt ttaaaattaa  360
aaactatttt gaactcaca tacaattca agttgttcaa aatgcacaaa tatttgcata  420
ctggttcacc ttaaccttgg gctatgtcca atcctcatcc ttcaagagga gaatttatct  480
aacacaacca aattacaact ataccggcaa acactaaatt tcacatcctt aacagtctct  540
cactggactt taaa                                         554
  
```

<210> 12886
 <211> 608
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12886

```

cacagcttga tgagaaataa atgttttgct tggatcata tctatgctac ttaatgagat   60
cattacatta tttgtgtctt aataggaagt gaaggacata cattagagga agccaaatct  120
atcaatctat ccttgagtgc attggggaag tgtattaacg cacttgcaga gaatagtgc  180
catgtgcat ttctgtactc agcttactag attgctacgt gattcatttg gaggttaagt  240
tcagttagta taataattca tattttgtct ttgttcattt atacaaagca gtaagatttg  300
gcaaaatact cttcctaact ttcaggacgt gagacagatg aagtcgagcc cataccggat  360
gctctgccta atctggaaca gtaagctgcc taatgtgtct ttgatgcatt ntagaagtct  420
aatcggtctaa aaaataaaa gcaatcactcc ataactgatg tattttattg gaaatgttaa  480
ttaaatttgg tttgatataa aggaaactaa ttaaatgga tatttgaaaa ataattattt  540
  
```

anattaaaaat ggatatttga aaattaatta tttaaattaa attcattttg ctagtaaatc 600
 taaaatta 608

<210> 12887
 <211> 336
 <212> DNA
 <213> Glycine max
 <400> 12887

gagccaaagg atccctctgt ctcaaccctc tttagcgttt gaattcagca gaaggactgc 60
 cattcacaat gacagacata gaagctgaag tgaggcaacc cctgatccac ctaatccacc 120
 tctcatgaaa tcccattatt ctgagcatat atagaggaaa atgccagaa acagaatcgt 180
 aagccttctc aaagtacact ctgaaaacca tgccgggtct cttagatctc ctaacctcct 240
 caaccactta attaaccacc aagactccat gtagcagttg ttctctttaa taaatggtga 300
 ctgcctttca ttaataatct gaagcatgaa ctttct 336

<210> 12888
 <211> 544
 <212> DNA
 <213> Glycine max
 <400> 12888

tgtttaattgc ttcctttgat taagactata tcatccgcaa aaagcatgca atatgggata 60
 atcttttgta tgtccttgat aagtacatcc aagactaggt gaaacaagta aggacttaaa 120
 gctgagcctt gatgtaatcc aatcacaatt ggaaagtcct tatttcacct caaggagttc 180
 tcacattagt agtcacccca tcatacatgt cttgtatagc ttggatataa gccatgtgta 240
 cgtctttttt ctccaaagtc tccacaacg tatctcttgg gacacgatca taagcttttt 300
 ccaagtcaag agaaaccatg cgtaggata taagtagaag ggaaagtcaa ttagcatagt 360
 tagactatta ataagttagt tactacagtt aggatattga ttagttgggt aagtggtag 420
 ttagttagat ggaggggttt gttacatata aataggggaa gaaagatagg aaaatgggag 480
 aacttatcat tgggagattg aacattatct ctttgtgaaa ggagaaaatt tttgtgaagg 540
 gaaa 544

<210> 12889
 <211> 493
 <212> DNA
 <213> Glycine max

<400> 12889

```
agctttgaaa aatgatttct atacacaagt tagtcgtttt atgcgactaa cagtcaataa 60
ttcctaattc tcttctaata ttaaagaagc tttcttttagg caggggtttg gcaaagatat 120
cggccaattg attcttttgt tcaacaaatt ctagtacaca atcacccttt agaacatgat 180
ctctaagaaa ttgatgccta atttcaatat gttctgttct agagtgcaga ataggatttt 240
tggataggtt gattgcaccg tattgtcaca acggatagga atatgatcaa gcattatacc 300
ataatcagag agttgtttgc tcatccataa gatttgtgca caacaacttt cagcagaaat 360
atattccgct tctatagtgt atgaggcaac actattttgc tttttgttat accaagatac 420
tagtgttgaa ccaataaaga ggcgagtcc actagtcatt atccttttga cgacacttaa 480
gcgggattct ttg 493
```

<210> 12890
 <211> 522
 <212> DNA
 <213> Glycine max

<400> 12890

```
ggagtttaga gaaggagca caaatattatg ccaaaaaagg aagggtatca agtttaataa 60
acaaaaacct tgaggggggt caatgtaata tactcatttt ttttaaccaa atacattctc 120
aattatttta acatttatta tgatcaacat ctcatatat gtagctagga tggccacggt 180
tcaaatagtg tgcaatacac ttggacaatt gtgttttaaa catttattat tgtttataac 240
acttgaatat aaagttattt tgaaaacgta caatttaatg cgatttgtat attatgcaaa 300
actatttata acttacttcc aaaattcatt taataaggga cagttaatat aatttgattc 360
aaaattatct catcaatttt cattaattat atttttaact ttgaagaaat tatgggtttg 420
tttaaatatt atttcttttg tttttgggga ttcagatttt atttctttta acgcatcaag 480
tttttatttt agtaacaatt aaaaattata tttttgtaac at 522
```

<210> 12891
 <211> 578

<212> DNA
<213> Glycine max

<400> 12891

```

agcttgggtc taagatatcc agcttagact ccagagtgtc tgcaagttga agaattcaaa   60
actaaagcag tgggtgaattt atatcaagcc ctagtactct cgacatatcc cattgctttc  120
ctcttcacag attcaatccg ttcttgatca ccttgggact tctcataata aagatacttt  180
ttgaataaga actgtcaate aagacaacaa aaccctaagt cagtctgact ggaaaaatac  240
aaaacaatgt cagtaaaatt ggtaatatag atatgcccaa accttcactc ttttcggttg  300
gaggctcaga ctaacagccc tttcaaacag tgcacgaatt atatctttgt ctttatgttg  360
aatttctgtg agagtacacg agagaatgtt acgttcaaaa taatatacaa acgcaaagaa  420
tatgagatgg agaaggatat acttgatcaa gataaacact ccataagtct gttctctttg  480
gggtactccg taggattttt tcaaacatgg atcgccctcg atctagaacc ccaactttga  540
attcaagaat agctgtctga gagaaaaaat taatatgc                               578

```

<210> 12892
<211> 528
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12892

```

agcttgttta ccccatgttg aatttgctta caatagatct gtccatagca ccactaattg   60
ttctcctttt gaagttgttt atggttttta cccactaact cctcttgatc ttttgctat  120
gcctaattgt tctgttttta agcataaaga aggtcaagca aaggcggact atgtgaagaa  180
gcttcatgag agagtcaaag atcaaattga gaggaaaaat aaaagctatg ctaaacaaagc  240
caacaaaggg agaaagaagg ctgtcttcga acccggagat tgggtttggg tgcacctgag  300
aaaagaaagg tttccggaac aaaggaaatc aaagcttcaa ccaaggggag atggaccatt  360
tcaagtgtct gaaagaatca atgacaatgc ttacaaagtt gagctgcccg gtgagtatta  420
atgtagtcc accttcaatg tctctgattt atctcttttt gatgcagatg gagaatccga  480
tttgaggaca aatccttctc aagagggaga gaatgatgan gacatggt                               528

```

<210> 12893

<211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12893

```

agctttgatg tttgtgttga atgcattaaa gatttatcta ccaaaagcaa gaaattaagt   60
gcataatagg ctacagacgt cttggaatag atacatacgg acatttgtgg gtcatttcac  120
acaccttcac ggaatggta acaatatatt atattcattc tagacgatta ctccatatat  180
gcatacttgt tcttatata tgaaaagtca caatctctgg atgcgttcac aacatttaaa  240
gtgaggttg aaaaatctact caccaaaaca ataaagtgtg tcacatctga tcgtggtggt  300
gaataatatg gcagatatga ctgttcacgt gaacaacgcc caaggccttt tgctatgtac  360
ctagaggaat gtggaatcat cccatagtac accatgtcng ggtcacctat catgaatggt  420
gtggctgaaa gacgaaacac aactct                                     446
  
```

<210> 12894
 <211> 481
 <212> DNA
 <213> Glycine max

<400> 12894

```

tgcataacac tttactgtg gggcaatctt ttgggatgtt tatcttgagg ctgggaaat   60
actgtccaaa atgttgagcc acattgacca atgctaagtc cactttatcc attacttgat  120
actgagtttc tggatcttgt gatattcaac agacgaagta tattggctct agctcattat  180
ttctctcttg gaggaggact gcacttatgg cttttgcaga gaccgagaag aatactatga  240
gtctcttact agtgcttggg ttcaaaagca ctacaggggt tgcaagcgta actgtcaact  300
gctgaaacat ttcttcacac tcactgttcc attgaaagtt tttctttcta agatgattca  360
tgattggttt ggttatctcg atgaccttg gtaagaatct ggataatgag gttattcttc  420
taactaacct ttgagcttct ttcacgtttt taagactcct catcttcaga gtggcttgac  480
a                                                                 481
  
```

<210> 12895
 <211> 458
 <212> DNA
 <213> Glycine max

<400> 12895

agcttccttag tctcacctga tgaattcgtg gctacttcat tctctcctct aatgacaata 60

gcatcacttc tggcactaaa ttgttgggag ttggaagcca tattctcaat taaatttctg 120

gcttcagtaa gggctcatgtc tccaagggct ccaccactgg cagcatctat catacttctc 180

tccatgttgc tyagtccttc ataaaaatat tggagaagaa actgatctaa aatctggcgc 240

tgagggcaac tggcacataa ctccataaat ctctcccagc attcatatag gctctctgca 300

ctgagtcgtc taatacctga aatatccttt ctgatggttg tggctctgga aatacggaaa 360

tttttttcta aaaatactct cttaggttca ttccagctcg cgatggacct tggagcaagg 420

taatataccc agtcctttgc cactccctct aaagaatg 458

<210> 12896

<211> 602

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12896

agcttccttag ggagccatgc cgacggtaga atgaaaacta ttgttataag tgaactctat 60

caatggaaga aaactctccc agcttccctt ctgctctaag atacatgttc ttaaaaggtc 120

ctccaatgac tgaatgggtc gttcagtttg gccatcagtc tgaagatagt aggctgaact 180

cagtctaagc ttggttccca acactctgtt caagctctcc caaaatctag aggtaaatct 240

aggatctcta tcagatacta tgctagatgg cacaccatgc agcctacaac ctcaattata 300

tacaagggtg tcaacttctc caaggaaaat ctaatattaa tgggaatgaa gtgagcaaac 360

ttagtgaatc tgtaaccac aaccctaaata gaatccaaac ctctaggggt tctatgtagt 420

cctaccacaa aatccatgga aatattgtcc cactttcatt gggatatttc taaaagatgt 480

aacttcctg aaggctctctg attgtctatc ttagccttct gacagactan gccacaaaa 540

catcatcttt aaatcctgat acatcttggg agcactagga tggatgctca nattactctt 600

at 602

<210> 12897

<211> 560

<212> DNA

<213> Glycine max

<400> 12897

```
taagctcctt caactgcaca agactcttat tatttgaaga gtatccttat ggaaccttca 60
cccgacaaaag acactgacaa aaagtatatct tctccttttt ggacaaagta tggcaagctg 120
ggggtaagta aattttcttc ccatcagacc ttggatgcaa ttgtgatcgt atccccatct 180
cagcttgatc ttgatgggta ttcaagccat cttttgtctt gccttgaatg ttaaggagcg 240
tcccaatcac actgtcataa acatttttct ccacatgcac aacatcaata caatgtctaa 300
cgtctagatc agaccaatac ggaagatcaa agaaaaatga cctcttcttc catatgcaac 360
tcttactttt atccttcttt tgggtcttct caaatacagt attcaggtgt tgaacctgct 420
gatatacctg ctcaccagtc aatgttatcg gctcaatata gtgctcttga cttocattaa 480
aagctttttt cagtcgtcta taaggatgat taggtgttag aaaatggcaa tgectactgt 540
agactatttt tcttccatgt 560
```

<210> 12898

<211> 555

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12898

```
tcatagggag ccatgccaat ggtagagtgt aaactgttat tataagtga cttctatgaat 60
ggaagaaaac tctctcagct tcccttctgc tctaagacac acgccctcaa aaggctcttc 120
aatgactgaa tgggtccatc agtttggcca tcagctctgag gatggtagac taaacttagt 180
ctaagcttgg tccccaatgc tctgttcaag ctctcccaaa atctagatgg cacaccatgt 240
aacctgacaa tctcacttat atacagggag gtcaacttct ccaagaaaaa tctgatatta 300
atgggaatga aatgagaaga cttattcagt ctatcaacaa taaccagat agaattctaa 360
cctctagggg ttctaggtag tcttaccacg aaatctatgg aaatatgtc ccacttccac 420
tggggtatct ctaaggggtg taacttccct gaaggtctct ggcgttctat cttagccttt 480
tgacagacta ngcatgcata gacaaaactca ctaacctctc tcttcatgtt gggccaccaa 540
aacatcattt ttaac 555
```

<210> 12899
 <211> 530
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12899

```

agctataaga taccctttt acttgcattg agtgtgttag tgcttancct taccgagtgt 60
ttaaagatt ggctaagatt ttgttaaac ataagcactt atacaatgaa ggaaagctgg 120
agttgctgca catgatgttc aacgctatgt caaagaatca gattgggctg cacaatgcac 180
aaggcaagat aaaatgtcaa atgatgaatt gaagctgcag gatccacgat gtcggatata 240
atgtccagga catcctgtct gaaaatactg gtcacataaa tctgttatat ctttaacaga 300
ttgtgcagga tccacgatgt cggatacaat gtccaggaca tctgcccga aaatactgga 360
cacataaatc tgttatctct ctaacagatt attgtgcagt tagcaacaga ttgacagatc 420
tatctctatg aacgaattaa aagatgatta aagtttgaat tacaaacttg aatagttcgt 480
tcagggatta aagattaaag ataacaacta caagatcaaa ctttatcttt 530

```

<210> 12900
 <211> 558
 <212> DNA
 <213> Glycine max

<400> 12900

```

tgacacttgt ggcatttcca tacatgaata caacagttat tctccatcgt gagccaaaaa 60
tatccatctt ttagaatatt tcgggccttg gcatgcccac tggcatgggt gacaaatgag 120
ccttcattga cctcccttag tatctgtcca acttcacttg catccatgca tcggagtata 180
accatatcat ggtttctttt gtatagcacg tccctattca aaaataagtt agccaccaac 240
ctccgtagtg ttctcttgct attctcaaag gcccatgtg ggtactcttt gtccttaata 300
tatctctgga tattgaaata ccaagggttg ccatcatttt cctcctatat caaacaacag 360
tgagcaggct cactgtgaca tctaatttct atgcatggca agtccccatg aaggetcacc 420
tggaacatag atgacaaagt agcaagggtg ttggccattt ggttttctta tctggggatg 480
tgatgaaatg atatatcatc aaagtgttcc atcaactctc tgaagcagcc ttgataaagg 540
attaacttat ggtctctt 558

```

<210> 12901
 <211> 562
 <212> DNA
 <213> Glycine max

<400> 12901

```

agcttctaaa ctttatacaa gaatgaagct ttgataccac ttgtagaca agtggcctca 60
aatatcttaa gaataggggg gttgaattaa gatattacaa actattttcc caattaaaat 120
tctactttga ttttaatgca agttccaagt tcccttaaag atgagtcctet aaaagatgat 180
tcaaaaataa caatctgaac gtaaatgtaa agcaataata aataaagaag ttttaaggaa 240
gagaaagtgc aaaactcagt tttatactgg ttcagccaca ccttctgtcc tacgtccagt 300
ccccaaagca cccgcttgag agttccacta tctggtaaaa accctttaca agttctgaac 360
cacaccagga cagtgatcc tttgtgttca gattgcttta caacaagaga cctcgggtct 420
cttaattcct tttcagaagt atgaagatga gaaaaagaaa tctttcttga aagagataga 480
ttgcataatg aagcactcca ataattcctt attgatttgc agtattttgc caacggatgt 540
tttacaagat tagacatttt tt 562

```

<210> 12902
 <211> 561
 <212> DNA
 <213> Glycine max

<400> 12902

```

tgttcttgac tcatcttccc cttgaaatga cgtctccaat cacttttccct ctttctccat 60
tacgctgcct ttgatcttca agaagtaaag gactccattg atgaagatac aaggcctaca 120
agctctacat ggagctaaat catgtggtat caaagcatct tcatctaggt gattttcttt 180
tgttttctct atcttttggt cagtcaattc actttaattc ctttctttat cgtcttatcc 240
atgtatctct tccattgtgg attggtgctg tttaaagtag ataaaaaaaa taaaccgatt 300
aaatcttaga tctacattg ttcttgcatt tctatgggtc aaaatttata aatctactat 360
taaatcatgt ttttgtgtt attttaggtt ctatcatttt tcagtcataa tcttcttgtg 420
ttgaatctta gatctcaatt ttcttgcaaa atattgatta gaaaagaaaa cacaaaaatc 480
taagtgtaaa tcacactact ttaaaaagca cattctatgt cggttggtta ccacattcta 540

```

<210> 12903
 <211> 565
 <212> DNA
 <213> Glycine max

<400> 12903

tcttagtttc agatgatgca gatgggtttg tagctacctc atgcactcct ctaatgacta 60
 tggcatcatt tctggcgcta aactgctggg agttggaagc catcttctca attaaatttc 120
 tggcttcagc aggagtcatg tctccaaggg tccaccact ggcagcatct atcatacatc 180
 tctccatatt actgagtcct tcataaaaaat attggagaag aagctgttct gaaatctgat 240
 ggtgggggca actggcacat agttttcttaa atctctccca gtactcatac aggcctcttc 300
 cactgagttg tctaatacct gagatatacct tcttgatggc tgtggtcctg gaagcaggga 360
 aatttttttc taagaatact ctcttaaggt catcccagct cgtgatggac cttggagcaa 420
 ggtaatacac ccagtccttt gccactccct ctaatgaatg aggaaaagcc ttcagaaaata 480
 tgtgatcctc ttggacatct gggggtttca tgggtgcagca gacaatgtga aattcttttc 540
 aatgtttgtg cgggtcttca cctac 565

<210> 12904
 <211> 621
 <212> DNA
 <213> Glycine max

<400> 12904

agcttgatgc ctctttgtat aacccttttt acttttgtga tctttccaat atcttctagc 60
 atcaagtcaa gacaatgtgc aacacatgga gtccaaaata tttttggtct cgtgacttgt 120
 aaaattttac ctagaaagac caaaatcaat aaacttgtat gagtagtgta acaattaaaa 180
 gttataacta taaaaaaaac ttcattaagc atgattgaat tctcaccgc caacacataa 240
 ttaattccat tgtccgtcac cacttgaata acattctttt ctccaatctc ctcaacaaag 300
 ctatccaaaa gctcaaagat cttctgacca gtcttcattgt attcagaagc atccacactc 360
 ctcacaaatt atgttcccaa cgaacaattt accaaaaagt taatcaaagt tctattcttc 420
 caatccgtcc aaccaactga cataattgaa cacccatatt tgattcactc ctctcagca 480

cccccaata agcccttcgt gtattccaac tcttttttaa ggagtggaac tctcaattca 540
 tgatagcttg gaggttttaa atgaggaacc ataggttcaa tcgctcaat catcaacttg 600
 aaactttttg atttagcaac a 621

<210> 12905
 <211> 516
 <212> DNA
 <213> Glycine max

<400> 12905
 gatgatgcgc tccctgagaa gttggatcca atggggaata gagatcatta tggagaagaa 60
 aggaggagaa caaggaatga tgggtgttcc acaccaaacc caattgatgg gattaaactc 120
 aacattcctc cattttaaagg aaagaatgat ccggaggcct acttggaagt ggaaatgaaa 180
 atagagcatg tattctcatg caacaactga ggaggacaaa aaggtgaagc ttgccgccac 240
 ggaattttcc gactatgctc ttgtgtggtg gaacaagcct ccaaaggaga gagcatgaaa 300
 tgaagagcca atggttgata catggacgga gatgaaaaag atcatgagga agcggtatgt 360
 gccggctaata tacttcaggg actttgaaat tcaagctcca aaaactaacc caaggcaaca 420
 aggggggttg agagtatttc aaggaaatgg atgtgtctct gattcaagca aatattgaag 480
 aatatgagga ggtaactatg gctcgatttc ttaatg 516

<210> 12906
 <211> 564
 <212> DNA
 <213> Glycine max

<400> 12906
 agctttgagc aaattcaaac gacaataact ttttactctg atgtctgatt gagtcccgt 60
 atatatcgac acgtcgaagaa ttgaatgctt atgtctgag caaattcaaa cgacaataac 120
 tttttactcg gatgtctgat tgagtccgt aatatatcga gacctcgaa attgaatgtt 180
 gatgctctga gcaaattcaa acgacaataa ctttttactc ggatgtctga ttgagtcagt 240
 taatatatcg agacgcttga aattgaatac ggaagctctg agcaaattca aacgacaata 300
 actttttact cggatgtctg attgaatccc ataatatatc gacacgctcg aaatagaatg 360
 ttgatgtctc gagcaaattc aaacgacat acacttttac tcggatgtct gattgagtc 420

tgtaatatat cgagacgctt gaaattgaat actgaagctc tgagcaaatt caaacgacaa 480
 taacttttta ctcggatgtc tgattgagtc ccgaatatat cgacacgctc gaaattgaat 540
 gttgatgctt ttagcgaaat caaa 564

<210> 12907
 <211> 432
 <212> DNA
 <213> Glycine max

<400> 12907

tctataaagg tttttgtgga ctgcttgctc tatcatacca ctaatacctt cacctacaat 60
 attgaatagt aggggagcta tgggatcccc ttgtctcaaa ccccttgtag ggagaaattg 120
 cttaaaaggg ctgccattaa tcaaaggcca tataaatgct gagtggaggc aagctgatat 180
 ccaaaccaca tatcacttgt ttcaatctat ttgctaataa cttatctatc accttgtaca 240
 tacatccaat caaggagatt ggtctgtagt catcaaata gaaggggtgg ctggttttgg 300
 gaattagagc tatgacagaa acattactgc ctataggga gctgccatgc acatggaatt 360
 catctacaaa tattctgaag tcagtgttct tcattttcca gaattgttta atgaatttga 420
 agttgaagcc at 432

<210> 12908
 <211> 490
 <212> DNA
 <213> Glycine max

<400> 12908

agcttgatta agaggcatcc tcaagaagct tccttggtgc ttcattgaga agctagatcc 60
 ttatctaccc acacccctct attaactaaa ttaacctcct tgaaaataat tactaataaa 120
 aataatgcaa caaataatca aacatcacac ataattacta ataatatata aatatatata 180
 tcaggtgttt acaactctcc caccctttta gaaatttcgt cctcgaaatt taccttactc 240
 aaacaaggat ggggtgagct atcgcattta actttctaata tcccatgtgg catcttctcc 300
 tgatgcacct cccagatcca ccttgaccaa tggaatctgt ttcctcttta cgtgttttgt 360
 tcgcctatcc tcgacctca aaggcaatgt ttcatatgct aaattctcct tcacttgtac 420
 atcatccaat tcaatcacat ggtgttgcaa cctacccttc ggtggggcgg tgacacaaga 480

<210> 12909
<211> 474
<212> DNA
<213> Glycine max

<400> 12909

atgatctata ttagacctgc tgcattgtac cttgttgaca ttagagatt tacgtgatct 60
tcctgtctcg caagatctgt catactgact tttaggtctc gccgacgggc tataataccc 120
gagtggctat ccgtataaac tttttgttgt ctataagacg aaaagcctga tagcacgcac 180
agactaacgt cttcttttgc gccctttgta taacgggggc gacactctcc cacactttta 240
gaaatttctc gctctaaatt taccttactc gaacagggat ggtggagctt atcgattctt 300
actttctaat taccatgggg cgtcttctcc tgatgcacct tccagatca cctagaccaa 360
tggaagctgt ttccctctta tgagtgttgt tcgcctatcc tccatctca aaggcaatgt 420
ttcatatgtc acattctact tcaattgtac atcatccaat tcaatccat ggtg 474

<210> 12910
<211> 413
<212> DNA
<213> Glycine max

<400> 12910

agcttgctgt taatcacctt gctgatctga cacttgatga attcaaggat tcacgtaatg 60
gattgaggag gacctataaa ccgagcgcag caacatttaa gagaaatgga tctaagtctg 120
aaaacgtgac cgatgttctt gaagctatag actggagggt agaaggagct gttactgcac 180
tcaaagacct aggtgatcaa tgtggtcaga caagtaacac catgtaagac cttcattgtg 240
ctccatcttt ttcattaatt ccttcatctc gttttactat atgtttggat aacacaaaac 300
aatcaattat agcctaaaaa atgatgggcc tgaaaaaata gaaatcatta ttactagct 360
ctaccaagat agcataactt attatttctc actatggatc gtatgtgagc aca 413

<210> 12911
<211> 666
<212> DNA
<213> Glycine max

<400> 12911

agctgttgtg agaaccataa gtgtgtgttg ggaattataa aaaaaatctt tgaatgtaaa 60
tagggtttgt atatagaccg tgtgacgtaa agagaaagag ttccagtgcg tgtacagaaa 120
acgtttgtca tgtataagaa tatatatgta caaagaaagg ttgtcctcat aaatgaccac 180
agggtgtataa ttttgtgaat gaaacaaaca ggaaaaagaa agaaagaccg cgaagggtcga 240
catgttatag ttaagaagta taaatcatte gtaaagagca aacgtatctt ttggaaacaa 300
gggactgatg ctaagagttt gttttccgga ataaccgaga taagaatgga tgaattcatt 360
gaactaataa aagaacataa tttggaaaaca ttgggtctgt ttgtgtaaat tcccaatcgt 420
agtatcagaa tgccatatac aggatgcttg agtgcccacc tggctgtagc catgactaat 480
attgcacgtt gttttaaatc atcattgtca cgcgtgcctt gtggagtaat atgggagttc 540
ggcccgagac cgacaccttg acacccaaat ttgtttttgc ccagatatca agattgggtt 600
cccacgataa tagaccccat tgaacacac cttagacttt ttgaaccttg cctatcaaaa 660
aatcct 666

<210> 12912

<211> 505

<212> DNA

<213> Glycine max

<400> 12912

ggacctataa atatcaactt taaccttgca acaaaggagt tgacctgta tattaatatt 60
cctcttcaaa ctcttagagg ggactttgaa cgttgtttat ggaggagtcc gagtcacatc 120
tctgattatt tttctcgagt ttggctgtgg ccatcaactt aaaagaaatg gtgaatatgt 180
tgatgacgtg aagggtcatgg aaaaaatact tcaaacttta tatccaagtt ctgacttcat 240
tgttaccac attgaagaaa acaaggattt aaagaccatg actattgaac aactcatggg 300
ctccttacat gctttccaag aaaaacaaat aataattatt aaacctaggg aggtacaga 360
gcaactacta caactcaacg taaaggaagc aaactttgca aattacaaga gccaaagagg 420
acgatgtccc ggccaatatc gtggacgttg gacatggacc tggaggagaa ggaagaagtg 480
gttacaacaa ccaactcaac aaatt 505

<210> 12913

<211> 549
 <212> DNA
 <213> Glycine max

<400> 12913

```

tgtaggggta aagtctctcg attgtcacgt gctcatgcaa caattgttag ccgtggctat   60
acgagacatc ttgccaaaca aagtcagggt cagcataact cgctctgtgt tttcttcca   120
tyctatatgt aycaaagtga ttgatccagt aatgtttgat gagttggaaa atgaggccgt   180
aattatactc tgccagttgg agatgtatct tccccctgct ttctttgaca tcatgattca   240
cttgattgtg catctgggtc gagaaatcaa atgttgttgt cctgtttatc tacgggtgat   300
gtacccggtt gagcgatata tgaagatctt aaaagggtat acaaagaatc tatatcgccc   360
ggaagcatct attgttgaga ggtacattgc agaagaagcc attaaatttt gttcagaaca   420
cttaagaag gctaaagctg ttgggcttcc aaagtgtcga catgaggaca gagtgggtgg   480
taagggttca agaggactgc aggtgatcac tccaagtgtg gaaaatttgt ttgtatgtct   540
tgaacaaca                                     549
  
```

<210> 12914
 <211> 465
 <212> DNA
 <213> Glycine max

<400> 12914

```

agcttagcat caatcaceta gctgaccaa ctaatgagga atttatggct tcccataaag   60
gatacaaaagg ttcacattgg caagggttga gaataacaac acaaacacca ttcaagtatg   120
aaaacgttac tgatattcct tgggcagtgg attggaggca gaaagtgat gctacttcaa   180
tcaaggacca aggccaatgt ggtatgtaac acaaaaaaaaa aaaaaaaaaa acccatgcta   240
gtgacactac tatatgtttt ctttgtgaac accgccatga aactaagcaa atagggttgt   300
agctgttggg cattttcagc agttgtctga acagaaggtg tctaccaa atactacagga   360
aacctagtat ccctctcaa gcaagaagta gtggattgtg atagtgtaga tcatggatgg   420
gatggagggtc tcaatgaaca tgggttttga tttcttatta aaaat                    465
  
```

<210> 12915
 <211> 539
 <212> DNA

<213> Glycine max

<400> 12915

gecttggtta acctgggaac ccaactggcc atgaatcaaa aatctgcacc tgtcaccaga 60
ctctgtggtt tatgtctctc tgccgaccac cacacagacc ttgtctcttc tgtgcaacaa 120
tetgaagcaa ttgaacagcc tgaagcttat gctgcaaaca tctacaatag acctctctaa 180
cctcaacagg aaaatcagtc acaacagaac aattatgacc tctccagcaa caggtacaat 240
cccggttgga ggaatgatcc caaccttaga tgggtgaatc ctccacaaca acagcaacaa 300
caaccttatt ttcagaatgc tgctagccca agcagaccat atgttctctc accaatccag 360
catcaacaac aataacaaca acaaccccag aaacagcaaa caattgaggc tcttccgcaa 420
tcttcccttg aaaaacttgt gaggcaaatg actatgcaaa acatgcagtt tcaacaagag 480
gctagagcct ccattcagag cttaactaat caaatgggac aattggctac acaattaa 539

<210> 12916

<211> 526

<212> DNA

<213> Glycine max

<400> 12916

tgcaagcgg ttttacggac ctttccgat tcttcaccgt ataggaccag tggcatacga 60
gctggaatta cctctacag tgcgcacca cctgtatct catgtttcac tctgaaacc 120
ctgcatcaaa acaccagaca cgcaaatcct tctcttctc gtgacagtcg tcgtgcacc 180
ttctggaacc aaacccaag caattattgg tcgccgtacg atacctcag agcacgattc 240
aagggaagaa gtctctgtac actgggaggg acaaatgcca gctgaagcta cttgggaatc 300
taaggctgcc atcgtgcgtt cctttcctga ctttgatctt aagggaaga tctattttgg 360
agatagggg aatgatacta ataggccaga aattgagcat gaacctatct ccaatagtgg 420
gccttcatt gctgcaacaa ggcccaaacg aattgtgaaa cctcctgcac atcacaaaa 480
ttaagtttag taataattat aattaaatga tgtaatcttt taatat 536

<210> 12917

<211> 580

<212> DNA

<213> Glycine max

<223> unsure at all n locations
<400> 12917

```

agcttgattg gttgtctaata gtatctcact gtacaaggcc atacattgta tttgttgtaa   60
gtctcttgtc tcatTTTTatg tgttTtgcaa gtgaaatgca tttaaaagta gcaaagagaa  120
tattgaggta tgttttagggc actattgatt atggTgtcaa atttgagaag tgtcaagaat  180
tcaagttgta tggattctct aatagtTatt gggctagatc cgttgatgac atgaagagca  240
cttcaagata ctgtttcagc ctaggcacaa gagttttctc acgatgcaca aagaagcaag  300
agattgtagc acaatccact gctgaggctg aattcatagc agcagtaaTt caagctttat  360
ggttgaagaa gattctaagt gatttacttt tgcagcagaa gaacaaaact ggaatttttg  420
ttgacaacgt gtgtcatggg aagactaaac atttcaacat caagctctat tttttgagaa  480
agatgcacaa agtggagaaa tgaacttaat ttactgcaag tcttaagatc aactgactaa  540
catgnttaca nagccactgc ctatcaacaa atttgaactc                               580

```

<210> 12918
<211> 531
<212> DNA
<213> Glycine max

<400> 12918

```

tcaagctgtt caattgcttc aaattgctgg acacaagggc aaaggTctgt gtggTggctg   60
gcagaggagc ataaaccaca gagtctggcg acaggtgttg atttttgatt catggccagt  120
taggttacca ggtaaccaa ggcatttagt ttacctcaa gcttcttagt ctcagctgat  180
gaagatgaat tcgtggctac ttcatgcact cctctaata caataacatc atttctggca  240
ctaaattgtt gggagtttga agccatcttc tcaattaaat ttctggcttc agcaggggtc  300
atgtctccaa gggctccacc actggcagca tctatcatat ttctctccat gttactgagt  360
ccttcataaa aatattggag aagaagttgc tcagaaatct ggtggtgagg gcaactagca  420
catagtTTTT taaatctctc ccaatattca tataggctct ctccactaag ttggctaattg  480
cctgaaatat cctttctgat ggccgtggtc ctggaataga caatatggaa t                               531

```

<210> 12919
<211> 444
<212> DNA
<213> Glycine max

<400> 12919

agcttgatg gcacttgaga aaattcaagg tgctactata agtcaatacc ttcacttaag 60

aagtcaggt gatgagttga tccaatctta caaaaattgt acattactaa tcacctatat 120

aatgagtaac aagggtgcaa ttttagagag attctataag tgtcttgagg catgtaacgc 180

tgcttttgta acaacatgta gacctttgat tgggttagat ggatgttttc tgaaaagtta 240

ttatgggtggc catttgttga caaccattgg gaaagatgga aataaccaa tgattcctat 300

tgcatatgta gtagtcgagg ctgaaacat agactcatga ttatggttta ttgacttggt 360

actaaaagac ttggatggga ttactgaaaa aaagtgggct tttatctctg accaacaata 420

agtaatatct ctaaatactt gtga 444

<210> 12920

<211> 346

<212> DNA

<213> Glycine max

<400> 12920

agcttgtaa tgcattcagg aacctaaca acaatacaag atgcatcact tccagtcctg 60

ctccaatgaa taaatgttta taagtgaac atgtatgctt attctaactc accccatctt 120

ggagcttgtc ctctacagca ggggcaccaa gaagaaatac gttcttctca atcttatctg 180

atactgcctc aatcattata tcttgatcag cactgactac attcatggcc ctagagaata 240

tactatcaaa ctccgtgtat tcttctgcat caaggtcacg ataggccagt atcagggtac 300

tcagaccgc atcagcatat tcatgcacat gtcctatggc tttctc 346

<210> 12921

<211> 523

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12921

tttttctctg tgcacctacg ttctatata cgaaaaaact tttttctcta tatacacacc 60

cattgaaaaa ctctttctct ctataccgac atgggctata taaaatctct attccttttc 120

aaagatctct tttcccttt tcaatatata ctcatgttt catataaaaa tttcttttca 180

cacattgttt atatacaaaa atttcttttc tttcttttat atacgaatat gacattttgt 240
 ccacaacatc tctttctttc tctattcttg gcggtatcac gacgtttttt tcattttatt 300
 ttaggatgac gttcctacaa cagatattat cgacaataat gagataagca ctaacacaaac 360
 gatccaaaaca aaatgtatgc acaaaacaaa tgacgatcga aacaacaaaa acaaacgtta 420
 gtccctcgag tcatagaaat gagataacat acaaatgata aatgatgaaa catgaaaaga 480
 atacgaatct ggggatccca cngtcatgtg gctccgcatg cca 523

<210> 12922
 <211> 586
 <212> DNA
 <213> Glycine max

<400> 12922
 agcttattaa aaacaagcat actaaaacat ttttcttgta acacctaaaa gtttaaacia 60
 aaaatattgc ttcaaaacgc tttaatttaa tttatttttag aaatacacat aacttttttt 120
 aaccgttact tataaataat aaaaacaact ctctatacta tttttttaca aaacaaaatg 180
 tgatagtggg aaaatgctaa atagttgcat gaaattaaaa taaatgcaaa tgtagaggaa 240
 ttgaatatct atacataaag aaaatgaaac ttgcagtgtc acagagaaat atatggatac 300
 aacccataat agtgtgataa taaacaaaat acattttcat cctttctaca acaaaataca 360
 tgatgcaagc tccattggag cttgtacgcc taggatcttc ttcataatg gatacctttg 420
 ctttttcgaa gatgaatggc agccgaatgg agaatgaaga gagagaggag acgccccttc 480
 aatgagaaga tgagtctaga agaagctcac caccataaga ggtcatggat aatagcttgg 540
 aggatgaaga gatcaatgaa cggagaggga gagaagacca cgaaat 586

<210> 12923
 <211> 419
 <212> DNA
 <213> Glycine max

<400> 12923
 agcttgttgt tttttagcta gacaactttt tattactatt ttttattttc tatatctctc 60
 ttccatgtta ttcttttctt gctcgtcttc tttttgctcc tttttttcca tgagatatgg 120
 gtgctaccta aacatacgta tttttttgtg aggtattttg ctatatacat gcgtgtccaa 180

ggatctctgc tacctaaaca tacatatata tgttttgaga gatattattg ctatatacat 240
gcataccaa ggtatgttgc tacctaaaca tacatatata tattttgtga agtatttttc 300
ctacatacat gcatacgca ggtatcttcc tacctaaaca tacatatata ttgtgtgagg 360
tatgactacc ttacgagctt gtgcttggtt tatttaaatt cctacgatca tgagcaact 419

<210> 12924
<211> 516
<212> DNA
<213> Glycine max

<400> 12924
ttacagcaga tgccactcta ctccagttc ttgaaggata tgctaacaag gaaacataag 60
tatattcacc aggaaaacat cgtagtgga ggaattgtt gtgctgtgat tcaaaagatc 120
cttccaccaa agcataaaga ccctgggagt gtaactattt cttgttcaat tggagaagtc 180
attatgggaa aggcctcttat tgacctggga gccaacatta atttaatgcc actctccatg 240
tgcaaaagggt tgggagaggt ggagatcatg cccactaaaa tgactttaca actggctgac 300
cgctccatta ccagaccata tggagtaatt aaagatgtgc tggtaaaagt gaaacatttt 360
atcttcccga cagactttgt ggtaatggat atctgtgaag atattgacat tcttgaata 420
ttgggaaagc cattcatgtt aactgcaagt tgcatagttg atatgggtag aaagaagctg 480
gaaatgggtt ttgaagaaca gaaaattgat ttttga 516

<210> 12925
<211> 538
<212> DNA
<213> Glycine max

<400> 12925
agcttcttat tcttatacaa gatttaaaaa tattcatatg tttctcattc tcaagataga 60
actcaacttg aatttttaac ttatttttat tgagtcctcat tttatctttt cccacacaca 120
acaattcaaa ttttgacttg ggaaaattat tttccaatg attaaagcaac cttgcttgta 180
gtcatttata caagcaactt atgtaagcat tttaaagaat tcattaattt gttctaatag 240
tattctcagg tcagttaact acaacaatt atgatttctt caggacacac atattctcct 300
tgattctctt gaaattgaac tcgttatgta ccttaatttt actgaatggg gtgtgattct 360

gtgtatgttt aggagaaaag aaaggataaa atgtcttcgt ctgtggacat gattttgatt 420
 atattgtcat cttaaattca ggggaagaag gaggccaagg ttttcttttt tcttttttaa 480
 gggatatcatg attacggtgg ggactattca caatattact taattatgat tattatct 538

<210> 12926
 <211> 537
 <212> DNA
 <213> Glycine max

<400> 12926
 ttgaaatgga cattgaggtg tctaaatgga tctttgaaag ttggattaag gtataagaag 60
 atagcacatg aggttagcaat cacaggtat gtagatgcag attttgcagg aaatgtatac 120
 acaagaaagt ccttaactgg atatgtgttt actttgtttg gagcaacaat cagttggaaa 180
 gcaaatcaac aatcagttgt tgctctttca acaactgaag cagagtacat ggccttagct 240
 gaaggagtga aggaagcaat ttggctaaaa ggaatggtat atgaacttgg aatagcacia 300
 ccttgtgtca caatttactg tgacagtcaa agtgccatta gcaaatcacc aaatttacca 360
 tgagaggaca aagcacatag atgtgaaact acacttcac agagatgtga ttgaatctga 420
 aaaggtaaag gtggagaatg ttttaacaga agaaaacct gttgatatgt tcacaaagtt 480
 cctatccagt gttaagttca agcactgcct tgacttgatt aattttgaag atgccta 537

<210> 12927
 <211> 147
 <212> DNA
 <213> Glycine max

<400> 12927
 agcttgcaat ctagtatctt ccaagacttg gctcgtacgc aagacgagcc tagatccccg 60
 aatttcgaca aaggcttaca aggtgttctc cctaagattc taaatgagat aagggttctc 120
 aggaaatatg cacaccatgt tgccatt 147

<210> 12928
 <211> 344
 <212> DNA
 <213> Glycine max

<400> 12928

actcggatgt cttattgagt ctcgtaatat atcgacacgc tgcgattga atgttgaagc 60
tctaggccta ttcaacaac aataacgttg tactcggaag tgcgattcag tgacgtgata 120
tatcgggacg ctcgaaattg aatgttgaac ctctgagcca actcaaacga caataacttt 180
ttactcggat gtctgattga gtcccgattt atatcgtgac gctcgaaatt gaatgttgaa 240
cctctgagcc aattcaaacg acaataactt ttactcggga tgtctgattg agtccctaatt 300
atatcgagac gctcgaaatt gaatgttgaa cctatgagcc aatt 344

<210> 12929
<211> 407
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 12929

tctagcactg gagtagatga cttgataatg tattgcttaa tctcattatt ttaaaaatta 60
agaaatcatt ttgcaattat aaaatctaag gtgtctcaag ttaagtagtt actctaacaa 120
atttaatat aaaatagatt tgcgtataaa agtttttaag tctatgtagt attgtagaac 180
ttacaaattt aaaatatata actcatttaa acaatcatga attgtgaata tttttgttcc 240
acgaagtcatt aagactgata agtgataatc atgtaaaaaa atagagtcaa ttaagtataa 300
actcgtctac tattactatc gctttatnta tatgattaag aatcgtaccc ttgtcatagt 360
ttctaaaaca tgtacgatat ataattcgtt gaagaagaat cattctc 407

<210> 12930
<211> 385
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 12930

agctntaaga gtcttgtgta agggccaccg cataccagct tctatctttt ggngatccat 60
tgatacccca tcttagaga taatatgcc aagatatact atcttagttt ttccaaaagt 120
acacttcttc tgattggcaa acaaagagtg ttctgatagt ctggccaaca ctgtctcaa 180
gtgcttttaa tgacctctct ttgttttggt gttaaaccaaa atatcatcaa agaaaaccaa 240
gacatacctt cgaagaanag gcttaagggt ggcattcata gcacattgga aagttgctgg 300

agcatntgtt aatccaaatg gcattactag agaatcgtaa tgcccttgat gagttctaaa 360
agctgttttt ggaatgtctg cctcg 385

<210> 12931
<211> 389
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12931

gctggaacta cttcacatgg atntgatggn gcctatgcaa gttgaaagcc ttggaggaaa 60
gaggtatgcc tatgttgttg tggatgattt ctccagattt acctgggtaa actttatcag 120
agagaaatca gaaacctttg aagtattcaa agagttgagt ctaagacttc aaagagagaa 180
agactgtgtc atcaagagaa tcaggagtga ccatggcaga gaatttgaaa acagcaggtt 240
cactgaattc tgcacatctg aaggcatcac tcatgagttc tctgcageca ttacaccaca 300
acagaatggg atagttgaga ggaanaacag gaccttgcaa gagggctgtc gggtcatgct 360
tcatgccana gaacttcctt ataattctt 389

<210> 12932
<211> 402
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12932

aacattcatt tcgaggctct cgatatatta cgggacttaa tcaagcatcc aagaaaaaaa 60
ttattgtcgt ttgaatttgc tcagagattc aacattcaat ttcgagcgtc tcgatatatt 120
acgggactca atcagacatc cgagtaaaaa gttattgtcg tttgaattgg ctccgagctt 180
caacattcaa tttcgagcgt ctcgatatgt tacgagactc aatcagacat ccgagtaaaa 240
agctattgtc gtttgaattt gtcacagat tcaacattga atttcgaggg tctcgatate 300
ttacgggact caatcagaca tccgagtga tagttattgg tcggtgaatt ggctcagagc 360
ttcaacattc natttcgagg gtctcgatat attaccggac tc 402

<210> 12933
<211> 368
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12933

agtttccgac tatgtctcttg tgtgttgat caagctacaa aaggagagag caaganatga 60
agagccaatg gttgatacat ggacagagat gaaaaagatc atgaggaagc ggtatgtgcc 120
ggctagttac tcaagggact tgaaattcaa gctccaaaaa ctaaccaag gcaacaagg 180
ggtaactatg gctcgatttc ttaatggatg tgctcatgat tcangcaaat attgaagaag 240
atgaggaggt aactatggct cgatttctta atggtttgac taatgatatc cgtgatattg 300
ttgagctgca ngagtttggt gaaatggatg atttgcttca caacagcatc caagtggagc 360
aacaatta 368

<210> 12934

<211> 339

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12934

atgcaagctt ggctctggcc atgagaacca tctcattctt aagatcatcc atcttagaaa 60
agatgttctt atcaagtaag ttctcttctg catcaaacaa atcaaatttg atcttctgat 120
catctacacc aatttcattt ttacctttcc ccataccac tacacaattg gcggttaaca 180
tgaatggatg acccanaatc aatgggatgt tagcatcctc ttcaatatcc atgacaacaa 240
agtccatatg gaatgtatag tgccgcacct tgaccaaaac atcttcaatc acgccataga 300
gccatgtaat ataatgatct gccaaactgca atgtcattc 339

<210> 12935

<211> 442

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12935

agcttctggt nntcaatttg agcatctcga tatgttacgg gactccatca gtcttccgag 60
tgaaaagtta ttgtcgttcg aatttgctac gagcttcggt tntaaagttc gagcgtcttg 120
ctatattacg cgactcaatg gaacttccga gtgaaaagtt attgtcgta gaatttgcta 180

cgatcttcga ttntaaattt cgagcgtcta attatgttac gagactcaat cagactctcg 240
 agtgaaaagt tattgtcgtt cgaatttgct acaagcttcg attntaaatn tcgagcttca 300
 cgatatatta cgcgactcaa tcggacttcc gaggagagaag tattgtcgtt gaatttgcctc 360
 gatcttcatt ttaanacga gcgtntgata tatacgggga ctcacgcact tccccaaagt 420
 tggaaaaatg gggtattttg gt 442

<210> 12936
 <211> 304
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12936

gtgacgtgct catgcaacaa ttgttagcgc gggctatacg agacatcttg ctgaaccaag 60
 acctgataat gataactcgc ctgtgctttn tcttgcatgc tatatgtagc acagtcattg 120
 atccaacct gtctgatgag ttggaaaatg atgctgcaat tatactctgc cagccggaga 180
 tgtattctcc ctatgcttcc ttgacatca tgattcacta gattgtgcat ctggtcagag 240
 aatcaaatg ctgtggtctt gtttatctac agtggatgta cccggttgag cgatacatga 300
 agat 304

<210> 12937
 <211> 300
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12937

agctctcttg tggtccctttt cccatcgaaa ttcaactgta ttctttaatc atagtaaagg 60
 tgaaaccact ttagttcttc ctgacagatt agaaatggat gttctaagaa aattcacctt 120
 accttaaat gattgaagtt gggtttctct acttcaattc cctntgatg gataatgaaa 180
 cccaagaaat cacatgcaga tacacaaaaa gcacatttta attgatccat ctttagtcta 240
 tgtggtcaag atgattatct ttcgattttg attntacaac aacatcatct atataaacat 300

<210> 12938
 <211> 399

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12938

 agctntacta tgcagagaat atccaatgaa aatactcttc atctgactta gcatcaaatt 60
 ntectaagtt atcttttcca ttattcaata caaaacattt acaaccaag atataaggt 120
 gtgagatgtt tggttttctg ccattgaaca attcatatgg agttttcttt aaaatgggtc 180
 ttattaaagc cctattttaa atgtagcatg cagtgttaac gacttcagcc caaaagtatt 240
 ttggaagagg agtatcattt aataaagttc tagcaatctc ttccaaagat ctatttttcc 300
 tttcaacaac accatcttgt tgaggggttc ttggtgcaga aaaagtatgc tcaatcccat 360
 gcttatcaca aaataattca aattctttat tttcaaact 399

<210> 12939
 <211> 404
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12939

 tgctgcacaa ctgcaggagc aaccaataac ctttctagct ntcccttcg aatcaatctt 60
 gcacaactgc acagggagaa agtccgcaa aattaaagca cagaaacaat ggcataaatt 120
 aatccattgg aaggcataaa tatagaatag tcataatcaa tattaaatat tatccaacaa 180
 aaagtaaatg aaattctcca aaggaaatgaa atcaacaagg cttactatca atgacactta 240
 cactagccca ttctccaagg gtctttgcac ccggaactat cagtaggcta acattgtgct 300
 ntgcacaaag ggcttagcc agtataactt agtcagggtg gtcacaatct tctgctagaa 360
 cgcagttgca catcatgctt ctcaatccct tttgcacctt catg 404

<210> 12940
 <211> 391
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12940

 agctntaaca ttaattaaaa gctcactgtt gcagggtgca gcacttatgg taattnttat 60

gcattgtgact gaacttgagc caatttatat gaaataaaaat aaatgcattc tcagggtttc 120
 gttttgctga atgctacagg ctttgcaaaa cttttttgct gcttttagtct attctgcaaa 180
 tactagtttt gattctctgc tggagtcact actagcctgt gctaagcctt ctccacagtc 240
 tgggtggcatt gctaacaag cntngcattc aatagctcag tgtgttgctg ttctatgcct 300
 tgctgctggt gatcagaagt gttcatctac tgtgaaaatg cttactgaca ttctcaagga 360
 tgacagcagt tetaactcag taaagttttt c 391

<210> 12941
 <211> 401
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12941

agcttctaaa gtagtataat gaagttgact atgatgagga gttaatatct gacctccaat 60
 actagaattt gattcanaag ctacagtgga gatcggaata gctaacgcat cctttgcaat 120
 tgctttagt attggtact ttaactcatt caatttccac cacattaaga tatcaaaatc 180
 tgaacttctt ggtaaaaatt cctcctctaa gtaatgatct aactccgttt tcatagttga 240
 tgttcttgcc cttttctttc ttggaatgta tctatcataa tcacacaatt tactctnttc 300
 atcacttaac cacattggtg attanaagaa ctagtagaat cttgatgctc ttgggcttga 360
 tattccgaaa ccaaatcata acacaagttt ccgactctat t 401

<210> 12942
 <211> 330
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12942

tccctgaac cacagacttc anagcgcgac tagcgggtgga actcgacaca gaccagatac 60
 ccagacaaat gagaaagggtg ttactgttg ctgccacga cgataccgaa caccaccggc 120
 aacagggcga ggtaaacctc ccaggtctcc ttcttgcatg tgatcaaaaa cgcaaaaatc 180
 gcggtgaaga acggcgctgt tgcgccgatg gcttgcctga aggaaacggc gaggtagcgg 240
 agggaggtgt tgccgcacac gacggagaag cagaagatgg cgctgagagc gaagatcttg 300

aggaactgct tcttgagtg gatgtgctgg

330

<210> 12943
<211> 412
<212> DNA
<213> Glycine max

<400> 12943

agcttaagaa aaagatggcc tcagcaaatt cttatttcc ggaagtggaa ttctatcaat 60
agacctccaa tctttaatgg agagggttac cactactgga aaacccgaat gcaaattttt 120
atcgaggcaa tagatctaaa tatctgggaa gccatagaaa tagggcctta tatacccacc 180
acagtagaaa gagtttcaat agatggtagt tcatcaagt aaagcataac catagaaaaa 240
cctagagata gatggtctga agaggataga aaacgagtac aatacaactt ataagccaaa 300
aacataataa catctgcctt acgaatggat gaatatttca cggtttcata ttgtaagagt 360
ggctaggaaa tgtgggacac tcttcatta acacatgaag gaactacaaa tg 412

<210> 12944
<211> 343
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12944

ctttccaatc tgacattcac cacagatgct gccttcttct attgtcagat tggcgatgcc 60
tctaacagca cctttgtcaa tgattatctt catgcctctt aagtgcagat gtacaaatct 120
ttgatgccat attctgactt catcttcttt ggaggataga catgtggagg agtagctggc 180
ttcttgaagt gtccataagt aacagttgtc ctttgatctg cttaccttca ttagaacttc 240
actcttctca tttgtcacca agcattctga ctttgtgaag cttacattga atccttcac 300
acacagctga ctgatgctga tcangtttgc agtcagtcctt ttc 343

<210> 12945
<211> 315
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12945

ctgcagcttg aattgaatat ggaagctctc gagatataca aatggtcata acttttcaact 60
 cggatggccg attcaagtgc ataacatatc gagacgctca naagtgaaca acagaagctc 120
 tgcagaaatt caaatggtea taaagtttca catggatata cgattctgtg ctataatata 180
 tgcgacgggt cgaaattgaa caacgactcg agaaattcat atggtcataa cttcccaactc 240
 cgatgttcga tgcacgcgca taacatatcg agacactcgg atttgatcac tggaagctct 300
 cgagatatac aaatg 315

<210> 12946
 <211> 374
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12946

agctttctaga tatattacgc gtctttatcg gacatccgag tgnaaagttc tgaccatttg 60
 aattttctga gagctttcat tgttcaattt cgagcgtctc gatataattat gtccttgaat 120
 cagacattcg tytgaaaagt tatgaccact tgaattctcg agagtgtcca tcgatcaatt 180
 ttgagcgtct agatatatta tgcgcctgaa taggacatcc gagtgaaaag ntatgaccat 240
 ttgaatttct tgagaacttc cgttgttcaa ttttgagcgt ctogatatat tatgcgcoga 300
 aatcggaactt ccgagtgaag tggtatggcc atttgaattt ctogatagct tccgctgttc 360
 aattttgagc gtct 374

<210> 12947
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12947

cttgtgtcca ggaggatata gtatgttttt gtaacattca tcaatagtgt gatntgtgaa 60
 tccataatgt gtacaaacct tgcttccttt cctatcaaaa ctccctttat caaagcttca 120
 ttggctactt cctcctctc tagaagtata atttgaggga aaaccatttt tcctataaca 180
 tttgtccact atgtgattat ccttaccaca gtaggtacat gatttcgatg aaagtgagcc 240
 tgttgcatg atgagactag tgtttcccat cagatcacta ttattgatct gcctttcttg 300

ttgaacaaca tatgagaaga cctttgctat gctaggtaat ggatccatca tcactacatt 360
 ggatcagaca atgccaaaat gataatttat acctctaaga aactgcataa cttgg 415

<210> 12948
 <211> 317
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12948

ttgtagttgt gctcgaatgt atgatctatc tccgatgata tatenacacn ctaaaaaggg 60
 aacaacggaa gctcttaaga gatgcaaatg gctatcactt ttcactcgga tgtccgattc 120
 acgtgcatca tatatcgtga cccctgaaat tgaccacaga agctctacgc aaattaaaac 180
 gygcataact attgagtcta atgtatgatc gacgcctatc atatattgtg acgggtcaata 240
 taggacaact gaagctctcg agaaattcaa atcgtataa cttttcactt ggatgtcaga 300
 atcacgtgca tcatata 317

<210> 12949
 <211> 354
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12949

aactggatgc attggttaac ttggtaaccc agctggctnt gaatcagaaa tctgtacctg 60
 ttgcaagggt ttgtgggttg tgctcctctg ttgaccacca tacagacctt tgcccttcca 120
 tgcagcaacc tggagcaatt gaggagcctg aagcttatgc tgcaaataatt tacaatagac 180
 ctctcaacc tcagcagcaa aatcaaccac agcaaaaaca ttatgacctc tccagcaaca 240
 gatacaaccc tggatggagg aatcacccta acctcagatg gtccagccct cagcaacaac 300
 aacagcagcc tgctccttcc tttccaaatg ctgctggccc aagcagacca taca 354

<210> 12950
 <211> 296
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12950

ctaaccatg gaagcttcta atatcttctc catattttga gacgggcat tcttggatgg 60
 ccttgattct cttagggtcc actcggaccc cacttctacc tacaacanag acggagaaca 120
 ctatgttata tacacaaaaa ggacacttct ctatatctgc atatagagtg tttntcctaa 180
 ggactgaaag aacttgctcg agatgaccta agtgattatg atngcagcta ctgtgcgcta 240
 aattatcatc aaaacaaaca actacatata tacctatgaa atcgctcaca catgat 296

<210> 12951
 <211> 352
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12951

tgtgtatcac tatccactac aacagcaaaa tacattgtca ttggaagatg ctgtgccaac 60
 actctctata tgaacaaca acttgaacac tttagggcaa ccttggatcc cattcctcta 120
 ccatgtgaca acatattgtc tattaatctg tctacgaatg cggtcgtgca ttcatagct 180
 atacatatat agattagaca tcattgtcta agagatcatg tatcnaaaag tgattgttgc 240
 attgagtttg ctgatatgta acatcaacta gccgacatct atattaaacc tctttctgga 300
 gataggttct tctttattat aaatgatcta ggtatcctag atggatcgag ta 352

<210> 12952
 <211> 442
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12952

acttatgtgc tcttatgaag tatctatttt ttntataaaa naaattgata catagtcatg 60
 agttcaaaaca agtgaagat acgtgctcaa tacatgtata atacattntg tctttgaact 120
 ccttaaacca aattgtggct aatttcctag accaaattta cgctcctcta tttttaaaact 180
 aaagcacatt tgcatttgta gtttgattgt tggatatttt atctttntat tatatgtgat 240
 attgacggtg atataattag attatgtagt tntttttaat actttataaa taaaaagcta 300
 taagctttta aaattaatct aatactaaaa ttagaaatac tacaaaatat atttttatca 360
 agaaaatcac agttaaaatt ataaaaaaa atggtacata natatgttat ttatgtaatt 420

tacatttttaa aagtaattaa ca

442

<210> 12953
<211> 371
<212> DNA
<213> Glycine max

<400> 12953

tgaagcttaa gaaggatctt gcttgatcga tggctcttgg cgtgatcaga tgacattagc 60
caagaatgtc tcgttcaaca tcgtaaacga gaagactact gcagacttaa taaaggcggt 120
atcatatatg tacgagaagc catcgacatc caacaaagta tacttaatgc gtcggttggt 180
caacctcaag atgggagaag gtatctttgt agctgatcat attaatgagt ttaatactat 240
tcttgcccaa ttggagtcag tgaagattaa atttgaggat gaggcgaaga cattgattct 300
attgtcatca ttaccagata gttgggctgc aactgttact gcagttagta gttcaacaat 360
ggagaacaca t 371

<210> 12954
<211> 428
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12954

tctgttgttg atgcaaagtg tgtgttaaga aacaagctgg aagaaatagg taaggatgtg 60
aggaacaagc ctacgcttgt ggccaaaggt tactcacaac aggaaggat agattatact 120
aaaacttttg ctcttgttgc tcactaagg gcgatactca ttntactatc ctttgctact 180
catcatggta tgatgttgta tcaaatggat gtaaaactgtg tgttcctcaa tggacttatc 240
aaggaagaag tctatgtgaa acaacccctt gnngttgaga gttctatcta tctcatcat 300
gttttcaaac ttaataaagc tttgtgtggt ttaaagcaag cttcttgagc ttggatgaa 360
aagtaagttc gttttaattg aaatggttta tagaggaaag gaatactatg ctattagaag 420
atatggag 428

<210> 12955
<211> 466
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12955

acaagattat gcttatctta acgcagaaaa tgtcatgcta atccccctga tttgagagcg 60
aactcacgta atctatttat gcacacgcat acatgtggaa tatecaacca tttatatcaa 120
catagaggct atccaacaca ttctaattgt cacacacata tacgcatttg aaaagaacat 180
acattctcac gcccaaggca ttgcgtcaaa gtccacactt aattatatcc taaacattta 240
ctattacaaa ctacttacac acatttgaaa tatatatcat acaaaattta ttgtttctct 300
cacatttatt tatatgcatt tggaatgcta attacatccc gcacacacct gcattcaaaa 360
agaattccat gctatcatac atncatttaa gaaaataatc attcacactc tggcaggaat 420
ttcatgcnnc ctttatntac ctatatatac ataccattga aaagca 486

<210> 12956

<211> 353

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12956

tgcaagcttg agagtgaaca acggaagctc tcgnatttta aaatggcttt aacttatcac 60
acggacgtgc gattcaggcg cataaaatat ctagacgtc catattgaac aacgaatgct 120
cttgagagat tcaaatggtc ataacttgtc acacggatgt ccgattcacc tacataatat 180
atccagacgg ccgaaattga acatcggaag ctctcgacaa attccaatgg tcataacttt 240
tacaaggaag cccgattcta gcgcattcaca tattgagatg ctottaattg aaacctgaag 300
ctctcagaaa tcaaatggtc atacttgta acggagtccg attagacgca tat 353

<210> 12957

<211> 345

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12957

catcaactat ccatattctt taattcattt aatacatgtg aacttatttc aaggattacc 60
taatgaagac ccctatgcac acttggaac attcattgaa atatgtaaca ctgttaagat 120

tgtegggtgta ccagacgaag ctattaggct cagccttttc tcattctcat tggcaggaga 180
 agctaagagg tggatccact cattcaaggg caacagtctg aanacctgtg aagaagttgt 240
 tgaaaaagttc ctaaagaaat acttcccaga gtccaagact gcagaaagga aagctgcaat 300
 ctcttcattt catctgtttc ctgatgaatc cttgagtgaa gcatt 345

<210> 12958
 <211> 344
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12958

gacaaaagca aggtctcttg cctacgtat cctctaata ggaactcaga cctacgtagt 60
 tctagataac ttgtgagact tgaaaaagtc tccaccggaa gatgctgaca tctccggaaa 120
 ggggtgcagat gaccacattg gcctttgctc atcaatcaca cttgggggtca ctgaatgacg 180
 aggtgcggtg aaccgtaagg tgtctccgcg ggctaccagc tcttgggtca tggtaacaaa 240
 tagcgggtgcg gtcgacaaaa gcaaggctct tgcctctacg tatcctccaa tgaggaactc 300
 anacctacgt agttctggat aacttgtagg actctgaaaa gtct 344

<210> 12959
 <211> 398
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12959

agctnnggatg tctttctctt tggtttgtac cttgcagtct canaactctc ctaaatatgc 60
 tcttttcaat taaactctca aaacattggt tgttacatct tttaatgcga aacagatgca 120
 acaaaaagaa ggatgctaga ttggggatca cgagttatga taattgatgg aattgcccaa 180
 ggagtctctt atcttcacca atattccagg ttccggatca ttcaccgaga tttaaaagct 240
 agcaacatat tgttagacac caacatgaat cctaaaatat cataatttgg aatggcaaga 300
 atatttgggtg agaatgaact tcaagcaagt acaaaaagaa tagttggaac atagtaagtc 360
 agataaaaga atattattaa tgggtataagt aatcatat 398

<210> 12960
 <211> 321
 <212> DNA
 <213> Glycine max

<400> 12960

tctcgatatg tgatgtgcct gaatcgaaca ttcgagttaa atgttatttc gatttgaatt 60
 tcccagagagc ttgcggtatt taattttgag catcttgaca catgatgcgc atgaatagga 120
 catccgtgtg aaaagtgttg accactatat attctcgaga gcttggttga tcaatttcga 180
 acgactcgat atgttatgcg cctgaatcgt acatacgagt gaaaagtgat gaccatttgc 240
 atatatagag agctttcgtt agtcaatttc aatgcgtttt atatattatg cgcttgaatt 300
 tgaccacgct gtgaaagtta t 321

<210> 12961
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12961

tgtgctattc caagttcatt aatcatacct ttaagccaga ttgattcctt cactccttca 60
 gctagggcca tgtattctgc tttagtgtt gaaagagcaa caactaattg ttgatttgc 120
 ntcaaaactga ttgtgttacc aaacaaagta aacacatata ctgttaagga ctcccttgc 180
 tctacatttc ctacaaaatc tgcattctaca tagcctgtga ctgctgctc gtgtgctgtc 240
 ttcttgtacc ttaaaccagc tttcaaggat ccatttagat accttagtgt ccacttcaca 300
 gcttccctagt gtgcgctgcc aggatctccc atgaatctac ttataatact tacagcatga 360
 gctaagtcag gtctgtgcga naccattcca tacattatgc ttccaacacc actggcat 418

<210> 12962
 <211> 407
 <212> DNA
 <213> Glycine max

<400> 12962

tatactataa aagtcattt ctattggatt cgagggataa acctttatag gattttccta 60
 gaatctctac ctggtcaatc atgtctagta gcctttgaga gtgacaagtg gctttgacat 120

ataagggtat gacacctcaa catgaaaact ctatccaaaa tttctaaaca tgaccttggtg 180
 aaaggattac ccaagatcaa gtatgagaaa gatagagcgt gtaaggaatg catcaaagaa 240
 aaacaaacca aatctagctt ttagtctaaa aatgcaataa ctacttcaaa agtccttagat 300
 ttactacatg tagatctttc tggctctacc aaaaccttaa gcctatgtta aaagagatat 360
 gaatttggtg tagatgattt ctttagattc acatgggttt tattcct 407

<210> 12963
 <211> 352
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12963

cttgacttgg ttcattntca cccctacttt tccagatata cttggatata tcctatcana 60
 tctaaggctg aaactcttta tgtntttcaa gcttttaaat caatgggtga actgcaactt 120
 aataactaaa tcaaaagtgt tcaatctgat tgggggggtga attcagacct ttctctgtctc 180
 tcctaacatc ctatggcatc tntcatagac ttatctgtcc ccacactcat catcaaaatg 240
 gtgtgggtga aagaaaacat agacatanta attgattang ccttacatta ttgcatcatg 300
 ccttnttacc cttacagttg tgaattatgc ctttattact actgtctatc ta 352

<210> 12964
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12964

ntgatgcaac atttggagag gttaatgaaa caacgagatg atgctctcta tgagaggttg 60
 gatcaaatgg agaatagaga tcataatgaa gaagaaagga ggagaagagg gaatgatggt 120
 gttcctagac aaaaccaa attgatggtatt aaactcaaca ttcctccatt taaaggaaaag 180
 aatgatctgg aggcctactt ggagtgggag atgaaaatag agcatgtatt ctcatgcaac 240
 aactatgagg aggacaaaaa ggtgaagctt gccgccacgg aattttccga ctatgccctt 300
 gtgtgggtga acaagctaca aaaggagaga gcaagaaatg aagagccaat ggttgatata 360
 tggatggaga tgaaaaagat catgaggaag cantatgtgc cggctagtta ctcaagggac 420

ttgaaattc

429

<210> 12965
<211> 269
<212> DNA
<213> Glycine max

<400> 12965

gttcacgagc atgggtggct gctggtggag gcactcgaat tccctgcta gacctcggg 60
tgatgacact cacatgtttc agatactgca catattgtcc gaatattgga actgaacctg 120
ggcatcatga graaccatct gccccatctg aattggcaga ccttgaatgg aagctctttg 180
ctgttggtaa cattgcatat tctggatggt catttgctc actaactctt ttaaagaagg 240
ttgaggatgg gcattagatg ctggttgtc 269

<210> 12966
<211> 424
<212> DNA
<213> Glycine max

<400> 12966

ataactcgga tgtccgattc aggcgcataa tatatcgaga cattttgata ttgaataaca 60
gaagctctcg agaaattcga atggtcataa cttttcacac ggatgtccga ttcgggcgca 120
taatatgtcg agacgctcga aattgaacaa cggaagctct cgagaaattc taatggatcat 180
aacttttcac tcggaggacc gattcaggcg cataatatat cgagacgctc gaaattgaaa 240
aacggaagct ctcgagaaat tcaaattgtc ataactttta actcagaggt ccgattcagg 300
cgcataatat atcgagacgc tcgaaattga acatcgaaag ctctctagaa attcaaattg 360
tcataactgt tcaattggag gtccgattca ggcgcataat atatcgagac gctcgatatt 420
gaac 424

<210> 12967
<211> 183
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12967

cgatgttcg attgagtcac gtaatacatc gaaacgctcg aaattgaaaa cagaagctct 60

gtgcaaattc aaacgacaat acattttaac tcggatgtcc gaatgagtcc cgtaatatat 120
 caagacactc gaaattgaga atnaaagctc tgaacaaatt caaacgacaa ttacttttta 180
 etc 183

<210> 12968
 <211> 389
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12968

ntctcttttg tgcaactatc tcctcctctt tttcaggtgt atgatgaagc ttgacaggtt 60
 caggtgcagg tgttgctact ggtggaggca cttgaatttt gttgctagac ctcaaggtga 120
 tgacactcac atttttcggg ttctgcacag tttgtcagaa ttttggaact gagcttggtt 180
 catctgagta gccatctgcc ccatctgatt tgtcagactc tgaatggaag ctcttgtctc 240
 ttgctaaaaa tgcattttct ggatgggtcat ttgcctcact aactcttcta aggaaggttg 300
 aggagggggc ttagttgctg gttgtctttg ttgtgattgt tgctgggtga ttggaggagg 360
 aacatatggc ttgcttgggc tagcaacat 389

<210> 12969
 <211> 330
 <212> DNA
 <213> Glycine max

<400> 12969

tcaccccata ggtcagaacg aatattaccg tctatcaatc gttatctaata aactttctata 60
 cgatgtctat atttgttctc gactactcca tcttctgac gggaattagg acctgatgat 120
 tgacgacgaa taccacctga ttgcataaaa taagccaact catttttata gactcctctt 180
 ccattatcat accagactat ctttattgca gtatcaaatt gtctgcttat cattttgcga 240
 aaatcttgaa aaacattaca cacatcactt ctgcgtttaa gaagggtataa tccagtata 300
 cttgtacaga ctatcacaaa tgtcacacac 330

<210> 12970
 <211> 424
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12970

ntagttgttg gtgctgatgt tagtatgatt ggaccgtttg gtgtgggggt ctactctaca 60
tatcttattg tcgaaaaggt cattgttacc accaagcaca atgatgatga gcaatacatt 120
tgggagtcce aagctagagg ttcatgtatt ttacactgct tccatgtgct actcgtgcca 180
accatattct ctatctccct ctacttttcc ttacctctca catgattcat tataatgtta 240
tgaatcttgt tatctcaatt ggattccttg attttcattt taatagtcga gaaactaact 300
ctgttgtatt gtatagatgg atattttgag tattngtgct ntataataac tattctttct 360
tcattacaca actctagcat atnctggatt ttagcttacc agtggttgat gactctccta 420
aagg 424

<210> 12971

<211> 404

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12971

tctccttgat aaatgtctat ccacttcaac atgtntattg ctatcatgtt gaactggatt 60
gtgtgctatt gctatggctg ctttattatc acaaaacaga tccattgtat cttgagctga 120
acacatgact tcttctaact acctttttaa ccagagaagc tcacacactc atttagccat 180
acctctaacc tccgcttctg cactagatag agcaaccacc ttctgttttt tactctccca 240
agagacaaga tttcctccca caaatgtgag gtaacctgat gtgtgatttc tatcagtaat 300
actccctgcc caatctgctg cagtataacc ttgaatgtgc tgatgctttt ttttgcaaac 360
attagtcctc tccctgggtga agatttcagg acctttatat caaa 404

<210> 12972

<211> 373

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12972

gtgggtactt cacataaact tcatttatga atccatttag aaaggcactn tngacatcca 60

tctgatacag nttaatgtct ttgtgtgctg catangctaa gagtattcta atagcttcta 120
 gtcttgctac tagtgcaaag gtctcttcat aatcaatccc ttgggtgtga ttatctcctt 180
 gagcaaccag tctagctttg tttctaactg cttctccttc ttcattgagc ttgggtttga 240
 acaccactt ggttccaatc actgattgat tcttaagagg nggaacaaga ttccagaact 300
 ngttcttaat gaattgatta gttcttcttc catagtagtc acccaagaat cttcactcag 360
 tgctttatca ata 373

<210> 12973
 <211> 395
 <212> DNA
 <213> Glycine max
 <400> 12973

actgatgcct tggcacctgg tactttcttt cctgaaaaaa aatctacacc tgttgcaagt 60
 gtctgggtca atgttctttt gcagatacca tacagatctc tgctcttctt tacagcaatc 120
 tggagtcaat gagcaacctg aagcttatgc tgcaaacatt tataatagac ctctcagca 180
 gggaaaccaa caacagcaga ataattatga cttttcgagc aatagataca atccagggtg 240
 gaggaatcat caaaatctga gatggacaag tctccacaa caacaacagc ctgtccctcc 300
 tttccagaat gctgctggtc caagcaagcc atatgttctt cctacgatgc agcagcagtc 360
 acaacaaaga ccacaagaaa ctgatgctcc tcttc 395

<210> 12974
 <211> 427
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12974

ntatctgaag aactcgccaa gcgcacttac tgttctaagc gagttcatct tttgaggatg 60
 aacactcctc ctcttgctga actacctgtg gctaagcgag gctgaatcgc taagcccgag 120
 taacttaacc attttttttt gtgatagcca catgttagac aagtggcctc agatatctta 180
 agaagggggg ttgaattaag atateccaaa ctacttcccc aattaaat ctatttatct 240
 ttttattcaa attataaatt cccttaacaa tgaacttctt aaatattgat tcaataaaaa 300

caagttgaat atgaatataa agcaataata aataaaggag tttaagggaa gagaaagtgc 360
 aaactcatat ttatactggt tcggccacac ccttgtgcct acgtccagtc cccaagcaac 420
 ccgcttg 427

<210> 12975
 <211> 424
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12975

ggacctataa aactaagcta tgctgcnaca ttataataga cctcctcagc agcaaacct 60
 acaacagcat aataattatg atctttcaag caacagatac aatccaagtt ggaggaatca 120
 tccaaatctg agatagacaa gtctccaca acaacagcag cctgtccctc ccttccaaaa 180
 tgttgcgtgt ccaagcaagc catatgttcc tctctaatg cagcaacaac aaagacaaca 240
 agcaaccaag gtctcctctc aaccttctctt agaagagtta atgaggcaaa tgaccatcca 300
 aaatatgcaa tttcagcaag agacaagagc ctccattcag agtctgacaa atcagatggg 360
 gcagatgact actcagttga accaagctca atccccaaat tctgacaaat tgccttcaca 420
 gact 424

<210> 12976
 <211> 421
 <212> DNA
 <213> Glycine max

<400> 12976

ctagaccttg ttgaagagac aaaatgatgc aatcctaccc cgcattgggca ttggctagaa 60
 gactccaagt agattgggct agagatccaa ggaaaggccc tagggttctc atgagcetta 120
 gggtagattt cgagcccatg ggctaagtat gagcccgctt atctttgtaa atattagaat 180
 aggttatctc ttcgtctagg ccttgtattt tggccattct agtagtatag ggttttagcc 240
 ttgtatttcg gggcattttg agctgtgttt gtaataagga cttttttttg ttattttcat 300
 gttttttgtc atgggggtga gcttagctat tatagggggt gtgtagctaa gctctagctt 360
 ctcatctcaa ggaggtgagc ttagctatta tagaggata ttagctaaag ctctagcttc 420
 t 421

<210> 12977
 <211> 303
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12977

ttaaagtcacc tgcngctgca gctntcactc gcatgtccga ttaagcgcat attgtatcga 60
 gacgctagaa atctaacaaa ggaagctctc gagaaattca aatggtcata acttttcact 120
 cgcagtgcgc attcaggcgc ataacatata gagacgctcg anattgaaca acagatgttc 180
 tgcgaaaatt caaatggta taacttttca ctcggaatgc ccattcacgg catagcgat 240
 cgagacgctc gacattgaac aacgggattt gtcgagaaaa tcaaatggtc ataacttttc 300
 act 303

<210> 12978
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12978

tcttanagag gatgaaggga tacaaaaact caaaagtagc ccttttgtca aagagctaac 60
 tcaatatctc tctcttaagt tttagctttg atatcaataa atgaaagaca atacttgtat 120
 tttcacaagt tttccttggt attgcaattt ttcaaaagtt attctttctg ttttgacatg 180
 aagcaatagt tctgctcct tttgtgtcta tagctttgtg tccaagatct gatgtttagg 240
 agtatgtttg tgttctgca tttgaactca atgtggataa tctgagtgtt gcagaatata 300
 tccgactcaa agaagaactt gtagatggat agtaagggtt gtttgactta tctctgttat 360
 gtaaattatt ttctttatta ctattgaatg ttgtatttat tgcctacgat at 412

<210> 12979
 <211> 198
 <212> DNA
 <213> Glycine max

<400> 12979

ttaatatagc gaagaattca ttttgcggcg ttgagatgag tagtggttgg agtctccatg 60

tatcgactaa tgagttctaat accatataga atgctctggtc ttgtgcacat caaatattgc 120
 aaactaccca tcaaactctt gaaatatgta gcattcacct tttctgcttc gtcgaacttt 180
 gataacttca ttttgcac 198

<210> 12980
 <211> 442
 <212> DNA
 <213> Glycine max

<400> 12980
 tgctcaattg ctccagggtg ctgcatagaa gggcaaatgt ctgtatggtg gtcgacagag 60
 gagcataaac catagactct tgctataggt acagatttct gattcaaggc cagctggggt 120
 accagggttaa ccaaggcatc tagtttacct tcaagcttct tagtttcagc tgatgaagat 180
 gaattcgtgg ttacttcatg cactcctcta atgacaataa catcatttct ggcactaaat 240
 tgttgggagt tggaagccat cttctcaatt aaattcctgg cttcagcagg ggtcatgtct 300
 ccaagggctc caccactggc agcatcaatc ataacttctc ccatgttact gagtcttca 360
 taaaaatatt ggagaagaag ttgctcagaa atttgggtgt gagggcaact ggcgcatagt 420
 tttttaaatc tctccagta tt 442

<210> 12981
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12981

tgtagaatgt ctcttaatca agttcctgtg aaaagaatta aagcagaatg gtgtgataag 60
 aatactgaga ttatgttgaa agtgtgcata gaagagggtga atgctggaaa taaacctcac 120
 aaccacttca ctaagcttgg ttgggcaaat attgcagaaa agttcaataa ggcaacaaat 180
 ttgagatatg aatataaaca attcagaaat aggtgggatt ctttgaaaaa ggaatggcaa 240
 ttatgggcta agcttattgg gaaggacacg ggtcttggtt gggatgggga gaagagaacc 300
 attgcagcta gtgatgaatg gtgggaagcc aaaattcagg tatttggttat tcaacgaaaa 360
 tagagttttt gtgcattttt ggttttattn tgcttcactc ctgtatatca tcacaacttc 420

<210> 12982
 <211> 267
 <212> DNA
 <213> Glycine max

<400> 12982

agcttgtgac ccaatccaat gcctcttctt tctgtgtccac ggagatatac cagcacaccc 60
 ctaccagcag cctcaatctg ttgcatcgca agtgcaagct gatttccaca gtcacatctg 120
 gcagatccaa atatgtctcc tgcagacac tctgagtgtg ctctcacaag aacatcttgt 180
 ccgtctccaa tgtcaccttg ttaataaaaa aatgtcagaa ccacaaaatg gtttgaagtt 240
 gaccattgaa ccaatcaatc gaagtaa 267

<210> 12983
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12983

ntctgcaggg aagctaagtg tgaagtatgc aatcctgcat aggattggcg ctgcaaactg 60
 ggtaccaccc aatcatactt ccactgttgc cacaggtttg ggtaaaattc tgtatgctgt 120
 tggaaaccaag tccaaattta attttggaag ctatattttt gaccaaactg ttaagcattc 180
 agaattcttt gctgtcaaat taccatttgc ctcccaact gtattgtgtg gcattatgtt 240
 gagtcaacat cccaatattt taaacaacat tgactctgtg atgaagagag aatcggtctt 300
 gtccctgcat tacaaactgt ttgaggggac acatgtccca gacattgtct cgacatcagg 360
 gaaagctgct gcttcatgtg ctgtgtccaa ggatgctttg attgtgaac tcaaggacac 420
 atgcaagggt ctgg 434

<210> 12984
 <211> 223
 <212> DNA
 <213> Glycine max

<400> 12984

atatctgctg gctgatcatt agaaccaatg aactcagtga ccatctcctt ggacagaagc 60
 ttctctcgaa tgaaatgaca atcaatctct atgtgcttag tacttttcatt gaaaactggg 120

tttgaggcaa tatgaagagc agcctgatta tcacaatata acttcattgg cagctcttca 180
 caagaccttc attcctgcag aaactgttaa tccacatgag etc 223

<210> 12985
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 12985
 tgaatcggac atccgtgtga aaagtattga ccatttgaat ttctcaagag cttccatagt 60
 tcaatttcga gcttctcgac atagtatgcg cccgaatcgg acatccgtgt gaaaagtatt 120
 gaccatttga atatctcgag agcttccgat gtttaatttc gagcgtatcg atatattata 180
 aacctgaatc ggacctcagt gtgaaaagtt atgactatct gcatttccgc agagcttccg 240
 atgtttaatt tcaagcgtat cgatatatta taagcctgaa tcggacatcc gtgtgaaaag 300
 ttatgacctt ttgaatttct caggagcttc cgttgttcaa ttttgagcgt ctcgatatat 360
 gatttgcctg aatcggaca 379

<210> 12986
 <211> 332
 <212> DNA
 <213> Glycine max

<400> 12986
 taaccacact ggccttgaat cagaaatctg tatctgtcgc aaaggtagt ggattgtgct 60
 cctctgtgta ccaccatata gacctttgcc cttccatgca tcaacctgta gcaattgagc 120
 agccttaagc ttatgtgca catatttaca ataaacctcc tcaacctcag cagcataatc 180
 aaccacaaca gagcaattat gacgctttcg gcaacagata caaccttgga tggaggaatc 240
 accctaccct catatggtac atccctcagc aacaacaaca gcgacctgct ccttccttgc 300
 aaaatgctgc tggcccaagc agaccatata tt 332

<210> 12987
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 12987

agctntgaga aatatcaatt gacaatttct ntttactcgg atgtccgata gtgtccatag 60

tttatcgaga cgctcgaaac tcacaagcga agctgtgaga taaatcaatc gacaataact 120

ttgtactcgg ctgtccgatt gtctcccgt gtatatcaag acgttcgata ttcagaatag 180

aagctttgag caaaatctaa cgacaataac tctttactcg gatgtccgaa tgtgggtccga 240

agtatatctg agacgctctg aactcacaac ggaagctctg agaaaaatta aacgacgata 300

accttttact cggatgtccg attgtgtccc gtagggatc gagacgctcc aaattctaaa 360

cagaagctct gagcacaatc taatgacaat aactacttac tctgatgt 408

<210> 12988

<211> 343

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12988

gagcaaattc aaacgacaat aactttttac tcgcatgtct ggntgagtcc catattatat 60

tgagacgctc gaaattgaat gttgaagctc tgagcaaatt catacgacta taacctttta 120

ctcggatgtc tgattgagtc ccgtaataata tcgagacgct cgaaattgaa tgtttaagct 180

ctgagcaaat tgcaacgaca ataacttttt actcggatgt gtgattgagt ccttgaatat 240

atcgagacgc tggaaattga atgttgaagc tctgagctaa ttctaacgac aataactttt 300

tactcagatg tctgattgag tccagtaata tctcgagacg etc 343

<210> 12989

<211> 348

<212> DNA

<213> Glycine max

<400> 12989

atgcagcttg tgggggacat gttgacatgt ttttttatct gacattttatc tttaaaattg 60

cctctatcta ttttcagatg gtgaatgcct ctaacaacac cttagacaat gattatcttc 120

atgcctctta gaagcagatg tcaaaatctg tgatgcccta ttctgacttc ctctgctttg 180

gaggatttac atgtggagga gtgactgtgt tcttgagatg accataagta gcggtgtac 240

ttcgaactgc tgccctcat taaaacttta ctcttcttat tagtcaccaa gcattctggc 300

ttggagaagg atacattgaa tcttcgtca cactactgac tgatgctg

348

<210> 12990
<211> 198
<212> DNA
<213> Glycine max

<400> 12990

atttcgagtg tctcgatata ttatgcgcct gaatcagacc tccgaatgaa aagttatgag 60
catgtgaatt tctcgagagc tacctatgtt caatttcgtg cgtctcgaga tattatgcgc 120
ctgagtcgta ccttcgaatg aaaagttatg accgtctgaa tttctcgaga gcttgcgatg 180
atcaattttt agcgtctt 198

<210> 12991
<211> 300
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12991

tagcttggaa catattatat caatccgagg cctctcttaa gatntagaca aaatatctgc 60
tagttgatta tttgagctga caaactctgt agctatctcc ttggacagct acttctctct 120
cacaaaaatga caggcaatct ctatatgctc gggctcttca tgaaacactg gaatagaggc 180
aatacgggaag gctgcctgaa ttcacaatac aacattattg gctgaacttc acagaatttt 240
agctctagaa taaattgctt gatccacact aatttccacg tgactgatgc catagccctg 300

<210> 12992
<211> 292
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12992

acttgtgaaa gatagtcatg aggggtgggt catgggccac tttgggatag acaagacgcc 60
tttcttactc aaagaaaagt tctattggcc ccatatgaag aaagatgtcc ataagcattg 120
cactacgtgt gtggcttgtt tacaagccaa gtctanggtg atgcctcatg ggctatacac 180
acccttacct atccctctc caccttgggt agacattagt atggaattnt tcttgggctt 240

cctgaaccca aagaggtgag actctatctt tgtgggggga tagattagca ag

292

<210> 12993
<211> 411
<212> DNA
<213> Glycine max

<400> 12993

agcttggaac atatgaaatc aatccgaggc cttcttatag atttagtcaa aatatctgct 60
agttgattat ttgagctgac aaactctgta gcaatctctt tggacagcta cttctctctc 120
acaaaatgac tgtcaatctc tatatgcttg gttctctcat gaaacactgg attagaggca 180
atacggaggg ctgcctgatt atcacaatac aacttcattg gctgaacttc acagaatttt 240
aactctataa taagttgctt gatccacact aattcacacg tgactgaagc catagccctg 300
tattctgctt ctgcacttga tctggcaaca tgattctgcc tcttgctctt ccaagagaca 360
acatttcttc caataaatac acaatattct gtagtagaac gtctatctat g 411

<210> 12994
<211> 395
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12994

tccgaaacaa aacacaaaac caagcaattc gaaacataat ccatcatcaa caccaccgct 60
accaccatca atatcttctc atgggtgggt ggctttattg gtatttgggc attttaattc 120
acacacttca attctcgtgt tcagtcagaa cgtccatgg cttgatccca caatcccaa 180
tccaatgcag cagttcaggc tgcacctcc gcaactccta cggcgcgctg ggcgaccgaa 240
aagactgttc tgccctcaac gtgacatacc caacaaccga agaacagctc cgttcggcag 300
tgtctacgc cgtcagaaac aacctcaaag tcaanggttg taccagattc tccacaccat 360
tcccaattat catgccca tgaaaatata acaac 395

<210> 12995
<211> 472
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12995

agcttgcac tacatgaatg actcttaagg gaaaatggat ttgaatgaag atcaaaatac 60
tttaaaaaag tatatataac attaaatttt ttaaagcact ttatgaaata accttaagca 120
agtaattcac atatcacatt caaaatcatg cataatcatt taaaaaaata gtcattgtat 180
atattcaatt atatcaaaat aatcaacaca agtattgaag aataaagatc acagacatta 240
tctaattttt aaaaaaatc atgctttgag aaagaaaatt aactcaatca aaacatataa 300
acacatactc acaatttcaa tcaatcaaga caaacaata aaatttttgt tagtcatcat 360
ataacaagtt aattgaaagg aaagtttcaa ccaaattaat tntaaagag aatgggtgtg 420
atgttacctt tttcatgatt taagtgccta gatcttcana gatggaagtc at 472

<210> 12996
<211> 359
<212> DNA
<213> Glycine max

<400> 12996

cttctccatt ccattctcgg tggaaataga cacctccggc gtaggaatgg gtgcagttct 60
atcccagaag aaccacacaa tcgccttctt cagcaaacc ttctgttcta agctccttcg 120
tgcttccact tatgtcaggg agcttgtcgc cattaccacc gcctttaaaa agtggagaca 180
atacttatta ggcaatcctt tcaatattct cacagaccac cgtagcctca aagaattaat 240
aggtcaggcc attcaaacac ctgaacagca atgctacctg gcacgattac taggctatga 300
ctatacaatt cactatcgtg tcggaagatc caatgcagca gtcgatgcc tctcacgg 359

<210> 12997
<211> 471
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12997

gcttcatttt ggttntcaaa atcatctaca ataactaagc catagtaatt accacccaaa 60
ctcatagttc ttgaaggacc aaataagtct atgtgaagta gtccatgggg ttttgaagta 120
gaaacgtttt ttcctttgaa aagaattttt aacttgtttc cctttttgac acgcttcaca 180

caattttttt tttcaaactt gagttttgga ataccaatta ctaagtcctt ttttaactaga 240
 tgattgaggt gatgcatgtt tatatgtgca gctctacgat gccataacca agaattatca 300
 atcttactta ccaaacaact aagtttatga aatgatgcat gttcaatatt caacatgtag 360
 atattaccta tctttttacc aatgtgagca acctcacga acatagcttc actaataaga 420
 caacaattct tggttgaatt caatttgaag cccttgtcac atagttgact a 471

<210> 12998
 <211> 334
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12998

acaagtatca tactctgcct gttccagata atttgaagcc taaagaggaa tgtggattgc 60
 attaactgac aagtatttct aaaaaaagaa agaaaatagc aagattgac catatataca 120
 tgcacagttt gtgaacttag accatcaca tttatactca ctttggttac tgctcgtaga 180
 acaaagagaa aagtgaata caaatntcta acacgatcag ggtatcttag gactcggta 240
 tacatcaaag taacaaagaa atgttgata gtgaaatgaa attgtgagag caaattgaga 300
 agaatatagat aataattatt aaccactggg aggg 334

<210> 12999
 <211> 502
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12999

tgagttcttc ttcattctctt ccncagactt atcctatcct atgccacca tgtaacttgt 60
 tgcaccagga acttgaggca tccactaca gaagcgaaag taaagggtaa attgatttga 120
 tcaaagctac tatagattca gagtattact aagtactaac aaggtagata catacttgag 180
 caaccttgat tgaattatga gtggcacctt ccagcacaca aacaaaaaaa aaattgtaga 240
 agctgtcatt atgaaatatg cacttccact gttcattnta taaagtttgc ttatgatatt 300
 taaatattaa agcaattata taaaatccaa tactccggat ctaatgcaat acctccaaca 360
 atgtttctca cattataata tttagccaat tcttgatacc tgagacaatt gtgctgatca 420

cataactata gaacgaataa gagagatcta aattctatca aataggagac cgatatccct 480
tcattattga atgagttgta ct 502

<210> 13000
<211> 457
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 13000

agcttgtaga ttaattggca tacgaattca tcttctactg aggtcgcgag tatccaaatt 60
catctcctat agattntgag tataggccca gtacttaaata ctttaataata tatttttaaaa 120
cataaatatc atatttcacg tcttttaaagt tagaagtaat attttaaatt aatagataga 180
gcagctatgt atgtgtgtgt ttgtttcatg agattagtgt gttattttatc caacatttta 240
atctcttcga tgttttctaaa tcataattaa ttgtctcaac tgcctggatg tacttaaaaa 300
acatatttgc ttataattat aaatatcaaa caatcattat acaatatata aatagaggaa 360
ttaaaacaat cttatgaaag ggccctttaat taacatactt ggctagaata aaaatttctc 420
ctcacattta taaaggtaaa actgtataat tatcata 457

<210> 13001
<211> 299
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 13001

agctcgatctt cttataatga aagagaaaga atattttctt gctggcctta tagtatctag 60
ttgggacccc agcagctgaa gtacatgaca tttctgaagg actcctctgn atgctttggc 120
ttctcatgat ttagtggtgt ggagagcata gcagaagcag aaagcctgtt agcctgagag 180
aatgagccaa aatgggtttt gagatggtgt tgaactgac ttatagcatt ggtccacctg 240
catatgcctt gttctttcaa ggccctccacc actccatgct ctaattcctg atgaactca 299

<210> 13002
<211> 463
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 13002

gagaacaatg acaattgaag aatcaattca tgcttcttt gatgagtcta atgctatttc 60
 tccaagaaag gatattntat atgatattac agaattcttta gaacaaatgc acattcatgg 120
 acaatattct aaaggaaaaa gagaaggaag caatgaagat ccaccaatag aagtcaaagc 180
 aaataatgat tttccaagag agtggaagaaac ttcaagagat catcccttg acaacattat 240
 tggtagacac tcaaaagggg taacaactag acactctctc aaagatntat gcaataacat 300
 gngcttttga tctatgattg aacctaanaa tntaaatgag gccataatag atgaaaaatg 360
 gataatagct atgcaggaag aactaaacca atttgaaaga aataatgntt gggagttagt 420
 tgagaaacct ganaactacc caatcatttg aacaaaatgg gtg 483

<210> 13003
 <211> 445
 <212> DNA
 <213> Glycine max

<400> 13003
 agcttgaacg aatataagat acatcttctt catcttttgt gattcttgac tccatctcat 60
 tgaagcgcat atccacttgt aattccaaag tgtcaaacct ttcaccaaca aaggtttgaa 120
 gaccatcaaa cctgtccaaa atctttgaag tggtgaagga aaagggtaac aagatgaggc 180
 taaagcaatg gagcattcaa tcgcaatgcc ttatgcatgc gatattctaac aagatgtgcc 240
 caatcaattt gtagaccttt atgaaaggcc cacataacaa tgagattctt ttcataatcc 300
 tgagcaaggt ttgaagatct cggaagcaag atgcgaacaa ttagttaatg aaggatgcga 360
 ctttcaaaag ccaatgaacc ggcaagaaag ctttcggtca tatccgcttg gttggtgcaa 420
 accaaccggt gggcatcatg tacag 445

<210> 13004
 <211> 476
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 13004

tctctgaggt agaagttact tggaatgcta cctgtcatag cattatcata ctattaagct 60

cagaaggaat ttctccatgt agtttgttcc caaccaaatt caggtagtgc aagttagaaa 120
gatgactcaa agctgttggg attgatccag ataaactgtt attggccaaa ttcagaattt 180
tcaaagattt aagagatcac ttagaggaag gtaagtcttt ttcaagcatg ttgtntgatg 240
ctgcaaangt ttggagctct tcacaacctt caatctcttc aggtatgtgg ccattaatgc 300
tattcatttg tacatcaaga gatattagat gcttcaattt accaattcca aagggtatgc 360
ttccatttaa gtggcagtat cctagagcca acacttttaa ttcactcatg tttcaacact 420
acgtggaatt cacctgtcgc atgttgcctc tattctagaa ctgcactcc tcaagt 476

<210> 13005
<211> 439
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 13005

atgggagnt tganagcngt cttgtnagcc cataaggcgt aatctatctt cacagtccaa 60
tctttccttg aggatgcaac aatcttctct agaattctct ttagctctct attagacacc 120
tttgccctggc catttgtctg gggatgatac ggtgaagcca ccttatgttt gacattataa 180
tgccccaaata cctaagttag aaatgtgaag ccccatcact aattagcact ctgggaacct 240
aaagcgagag anaatgtttt tcttcaggaa cttgatgaca atcttggcat cattcttttg 300
tgcagccaca acttctaccc atttggacac ataatcaaca gctaccaaga tgtactcatt 360
tccatataag gatggtagag ggccacaat atcaataccc caacagtcac atacttccat 420
ttcaattatg ttctacaat 439

<210> 13006
<211> 459
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 13006

agcttcatgc ttaagtatgt atggcaaaac ttctttactg ttgttcaaga catacaagtg 60
agcttgaat aaatcttcta gacttggagt gatcacatgt agtctcttg aaccttacc 120
accactctg tcatcatgcc gagacttaag aaggccaaca ggtttagcct tctcaatgta 180

ttctgaacaa aattcaatgg cttcttctgc aatgtacctc tcaacaatag atgcttctgg 240
 atgatataaa ttctttgtat acccttttaa gatcttcacg tatcgctcaa acgggtacat 300
 ccaccgcaaa taaacaggac cacaacattt gatttgtgtg accagatgca taatcaagtg 360
 aatcatgatg tcaaagaaaag cagggggaga atacatctct aactggcaca gtataattgc 420
 ggcttcattt ccaactcacc anactgacgg atcaacgac 459

<210> 13007
 <211> 382
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 13007

aagaccttac atcatttatg aaatgcatat tattaccaa tatcaatatg tcatccacat 60
 acatacatta aatgacacat ccactataat caaattgtnt cacatacaca catttatcac 120
 tattatngag ttgaaaatca tatgaaagaa caacttgatc aaactnnttg tgccattgct 180
 ttggagcttg tttcanatca tataaagaat taacaagttt gcaaactttc tttccatac 240
 ctggctctac aaagccttgg ggctagctca tataaatgtt ttcttttaac tcaccattaa 300
 aaanatagct tttacattca tttgatgaat ntccaaatta naaatacaag caagtgcatt 360
 taaactctaa tatagtaatt ta 382

<210> 13008
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 13008

tattatgctc ttgcanaatc ctctcatgt tcatttttgg gttcatttca gtgagttntt 60
 tttttttttt gtgagcatca atgtatggaa tcacctctgt tgtattgttt aatacatata 120
 gatgcgcttg tgagacttcg tgctgagtca ttgtgataac gttgaatcct cgtgtacct 180
 tccccccgg tgtccgacca tggcgacttt cgggcaggcc gacgggttga gcacattcag 240
 tgtactggga gcaaaaactca atacactctt cagtaacata cctttcgaca attgaagctt 300
 cgggtcgggt tagattcttc gtataccctt ttaacacttt catgtaacgt tcaattggat 360

acatccaacg ttaganaaca ggcccacaca ttatgatctt cctcactaca tgaacaat 418

<210> 13009
<211> 491
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 13009

tcaagaatta atgggctcat catactactt gtccncgaa tgcaattcaa ttaataggcc 60
tcacatnttt aatggagtggt gttaccactg ttggaaaacc cacttgcaaa tcttcataga 120
ggctatagat ttaaacattt gggaagccat agaaataggg ccttatattc ccaccatggt 180
tgctggaaat acaacaatag aaaagcctat ggaagattgg agtgaggaag aaagaagact 240
agtacaatat aacttataag ccagaaacat aattacatct gccctatgaa tgaatgaata 300
ctntatggta tcaaactgta taagtgcaca ggatatgtgg gataccctac aagtaacaca 360
tgaaggcaca acagatgta taagatctan gatatacaca ttaactcatg aatatgaact 420
atztatgatg aatgcaaag aaagtataca agacatgcaa nataggttca cacacatagt 480
taatcatctt g 491

<210> 13010
<211> 368
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 13010

cgttcctaatt ttctctacaa ttgcatcacc tctcaatgag ctggtgaaga agaattgtggc 60
atttacctgg ggtgaaaaac aagagcaagc ctttgctttg ctcaaagaan agcttactaa 120
ggcacctgtt ctactcttct ctgacttttc taaaactttt gagctagaat gtgatgcctc 180
tggagtggga gttggagctg tattgttaca aggtgggcac cctattgctt attttagtga 240
aaaacttcat agtgcacccc tcaactaccc cacctatgat aaagagctnt atgccttaat 300
aagagccctc caaactttga acattacctt gtttcaagga attgtcattc tagtgatate 360
aatcactt 368

<210> 13011

<211> 379
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 13011

atttccacac atctgagctt catcaagtgg cgtatttccc atctgtcttt ggtaaaaaca 60
 cttagctctc cttctaataag caactttgcc atgaaatata aatcttcagc tgcagcaatc 120
 tgaagaggaa cttggaaatc ataatctttt aagttaggat ccatgccatt ggataaaagt 180
 cttttaagat aatatgaatc tccccttgca actgcaatac acaaaaaact accaacattn 240
 tcaatcttca tagaggcccc ttatccaaca agtaaagaag caataatagg gagcgagagt 300
 tgtgaacaat gtgttgcatt accaagacct tgacggccga acatcactgt ccacgaagcg 360
 caaaccgcgc ctgatcatg 379

<210> 13012
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 13012

tgcaagcttt ganaaattca natggtcata actnttcaca catatgctag attaaggcgc 60
 atcgcatata gagagactcg aaaatgaaca acggaagctc tcgagaaatt gaaatggtca 120
 taacttttca cactgaggtc cgattcaagc ttataatata ttgatatgct cgaaattaaa 180
 catcggaagc tctcgagata ttcaaatggt cataactttt cacatgaatg tccgattcgc 240
 gcgcataata tgtcgagaag ctcgaaattg aacaacggaa gctcttgaga aattcaaatg 300
 gtcataactt ttcacacgga tgcccgatc aggtttataa tatatcgata cgctcgaaat 360
 taaacatcgc aaactctcgc gaaatttata tggtcataac ttttcacacg gatgttcgat 420
 tcgagcgcat aatatgtcga gaggct 446

<210> 13013
 <211> 466
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 13013

tgcctagagt ttatttataaa aatgtntntg gatgtaacac ctataanaga acattttcga 60
 aaaaaaaatt tatgatgaga agaagttcgt attgaagttg ggattagagg ctaagaggat 120
 tgattgttgt gtggatggtt gcatgttgta atgatggagc gctaactaaa tgcaagtttc 180
 gtaacaagcc caagtatcgt gcgaagacta ttggaacaat cattaataaaa ccagttccag 240
 taaaggcaat gttctatattt cttgtaatac caaggttgca gagaatattt gcattgatgc 300
 anattgcaag ccaaaagaca tgacactatg agaataagaag atattcagcc atgttacggt 360
 atccctcttt tggatgaagcc tagagacact ttgatcaggt acattgcaga tttctctattg 420
 atctgtggaa tgtgcgactt agttatacat agatgaattt aaacat 466

<210> 13014
 <211> 371
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 13014

gctctcgaga agttcanatc gttataactt ttcactcgga gatccgattc acgcgcataa 60
 taacgtgacg cttgaaatag aactatgaaa gctcttgagc aattcaaatg gtcacaactt 120
 ttcacacgaa ggtcagattc acgcgcataa tatatcgaga cgctctgaaa tgaacatcga 180
 aagctctcaa gaaattcaaa tggtcataac tcttaactcg gaggtccgat tcatgcgctt 240
 aatatatcga gacgcttgaa attgaactat ggaagctcct gagccattca aatggtcata 300
 actcttcact cggagggttcg attcacgcgc ataatatatt gagacgctcc aaattgaaca 360
 acggaagctc t 371

<210> 13015
 <211> 418
 <212> DNA
 <213> Glycine max
 <400> 13015

agctagaaga aataagggat taagctttct ctattggctg aagcagatta catacctctc 60
 gaggcattgag cgtcttggga ataactctgc aagagacaac atgacaaata tctcatcaat 120
 ggtgaaagag accaataaaaa gcaaacacag tggttactaa ttgaggggtga ggtcctattc 180

ctgccttttt cccaacatct gtgtgggaaa aaagagaaag gggaattata aaaagagaca 240
 aaagtgaaga gtgtttatgt tactttacca atgacatggc gaccgccatc atgaacagct 300
 tgtgatacta taccattag acctatgctt tctctccat acaccagatc gatgtggctt 360
 gagaccttaa ttacaacacc attcaaaaaa caatattaat cagccttgaa tattaaac 418

<210> 13016
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 13016

tcaagaaaaa gatggcctca gcaaattcct tatttcaga aaggaattct atcaatagac 60
 ctccaatctt taatggagag ggttaccacg actggaaaac ccgaatgcaa atttttattg 120
 aggcaataga tctaaatatt tgggaagcca tagaaatagg gccttgata cccaccacag 180
 tagaaagaat tacaatagat ggtagtcat caagtgaag cataactata gaaaaaccta 240
 gagatacatg gtctgaagag gatagaaaac gagtacaata caacttataa gccaaaaaca 300
 taataacatc tgcctgnga atggatgaat acttcanggt ttcaaattgt aagagtgcta 360
 aggaaatgtg ggacactctt cgattaacaa atgaaggaac tacagatgtt aaaagatcta 420
 ngataaatgc actaactcat gagtatgaaa atatt 455

<210> 13017
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 13017

atgcctcagc aacagctttt acttctttct ctggcacagc aaagcataca gaatgctcac 60
 tactagccta cataaatact gttaatgatt aatgccattt cttatatatc agcgtggaca 120
 actagaaaaa ttgaaaaaag ttataagtgc acctgagata tcatgataac attagctcca 180
 acatctttta ctgcacaaa aatagcactg gcagtacctg gaacaccagc cattccagtt 240
 ctgcaaaaaa gcatcaaaga anaatttatt ggaatctaca acttggacaa ttaatatgtg 300
 ttaaagaaaa ccttatatta aatagaaatc ctctgcagc aaaaaatgcc aactattcat 360

catgtaacac aactgcaatt catgactcac cctcgcagct ttacaa

406

<210> 13018
<211> 331
<212> DNA
<213> Glycine max

<400> 13018

tagtacaatt tgcagcgtct cgacatatta tgcgctcgaa tcggacatcc gtgtgaaaag 60
ttatgaccat ttgaatatct cgagtgttta cgatgtataa ttctgagtgat atcaatacat 120
tataaacctg aatcggacct cagtgtgaaa agttatgacc atttgaattt caccagagca 180
ttcgttgttc aatttcgagc gtctctatat gtgatgcgcc ataattgtgc atccgcgata 240
aaagttagga ccatatgaat atctcaagag cttaccgtga tcaattttga gtgtctctat 300
atgtgatttg cctgaatcgg acatccgtgt g 331

<210> 13019
<211> 446
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 13019

tttttgatt tatcacaata tgcaaatgag atgatcaaag tctaactttt cccatgcgta 60
aattattctc taggtctgat actatntgca aatctttata taagtttttc ttcttttatg 120
ttntatgatg tgagtgtgat atggcagagc aataaggaaa gcaatttgca tccacaaaac 180
aggagatgca gcttcttgca agtttttgaa taatcccttc atgatcggtt ntgggatctt 240
gcaactnttc ttgtccana ttccaaactt ccatgagctt acatggctct caactgctgc 300
ctgtatcacc tcttttgga tgtattcatg gcagtggctg tgtctctggg cgtctctagg 360
tactttttgt ctcatataa tcgaatagtg aatataatac cgatntacta tagagttcaa 420
gttctgctgt gctctcggt tatatt 446

<210> 13020
<211> 464
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 13020

gctaacatccc ncagactggc cttcaacggg ttctctctct atgcegtctg cgccattgac 60
aagttacagt ctaacaatac taactctgag gaatattcct ctttcattcc gaattctccg 120
catcctatca cgttaaacgc aacaccaccg aagatattga ccgagttcat gaagccactg 180
ctggaaacag agctcanaag ctacggctta atcgtaacg actttgcgga actcggagga 240
gaagagtaca tcgagcacta tgagcaaacc acgggtcaca aggcgtggca tattgngcca 300
gcgtctctta tgtgcaaaag aagccttgaa gagaaagcgg agaggggaca gaatagtgtg 360
gtgggagcgg acgagtgcac gagatggctc aacgggaaga gaggtaaac ggtgggtgtac 420
atatgctntg ggagcatgtg tcatttccag gataaacaac tata 464

<210> 13021
<211> 553
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 13021

ctaagcttac atggagctac attagtaagt gtcgaggtca cacccttcacg cacaggtaac 60
tccccacat ggtgatcacc ctgagtctta agggagttcc aaaaccgagt gacatacccc 120
caagtacaag tatttcccct tatgagaaac ttcaagtact tactcgcaaa gtttatacta 180
tttccatgca acatgaagta tgaaacatgg gtaccatcaa tgcacaaact gtggataatt 240
aaagattcta agtcaccccc cttcatagat gcttaaaact ctctaaccac tcttctctcc 300
accagggata tccatcatgg taactgaacc cnccatgtac atacacaaca tacatcatca 360
caatgacatt ntcaacatca acaacatttc atctcaatgt cattatcaac atcaacatca 420
tctcatctca atgccattct gaacatcaat atcatctcat ctcaatgaca ttatcaacaa 480
caacatcacc atctcatatc aacataataa ttaataacaa catcacctca tatcatatta 540
tcataacact gac 553

<210> 13022
<211> 358
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 13022

tctgggggac atcttgactt gctntccaat ctgacattca ccatagattc tgccttcttc 60

tattttcaga ttgtgaatgc ctctaacagc acctttgtca atgattntct ttatgcctct 120

taagcgcaga tgtccaaatc tttgatccca tattctgact tcactttctt tggaggatag 180

acatgtggag gagtagctgg tttcttgggg tgtccatagg taacaattgt cctttgacct 240

gctgcccttc attagaactt cactcttctc atttgtcacc aagcattctg accttgtgaa 300

gtttacattg aatccttcat cacacagctg actgatgctg atcaagtttg cagtcagt 358

<210> 13023

<211> 336

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13023

ctaagcttaa ccgatatnta agctgttntg tcaccttaata aatgataata tgaatttcaa 60

ccgatcattt gtgttgtaat ctctgttaat cactgttaaa gtaaaatcta accgatcggt 120

cacgttgtaa cctcgggttaa acaaaaaaaaa gcacaataat tataaaataa tcaaaatatac 180

tttaataaaa ataataaaaa ataattctatc agacgttntt ctttgggaagt ttccttgaat 240

gaattgacta ataacaaaag tgaaactgaa attctgatac caatgccaga tgcctgtacag 300

gatgtcacga catcacgctt cagaacatgc agatta 336

<210> 13024

<211> 422

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13024

cttgtaacct tgacctgggt tgaaaaaagc actacctcta tgttagagtg gtgagagcca 60

aggatnttcc agggaaagat gttactggtg gtgtggatcc ctatgttgaa gagaagctng 120

gaaactacat gggccttacc aagcancttg agaaaaagtc caatcctcac tggaaatcagg 180

tttttgcctt ctctaaagaa aggattcaag cttttgttct ggaggtagtg atcaaagaca 240

aggatattgt tgtggaagac tntgcaagga gagtgaatgt tgatattaat gaaatcccaa 300

aactatatattt cccctttctt atctagtntt cattaacaaa ttcttctata tcttactaat 360
 cttagagaag aaaatatgta ggaagagcaa aattaacccc tacatatgta gcagtatcac 420
 at 482

<210> 13025
 <211> 492
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 13025

cgtactgcac agttgtgaaa ttccctgtgg ttatatgttg gtctcttaat ttgatcacct 60
 ttgtactaga tntcataatt gttgtaaggt gtttggttg gttgggcacc acttggtgcta 120
 aattaagtgt tattaataaa tcatttgcct tttaaaaaaa aattaaactt caccaggaat 180
 tgaaatcatg caagtcggtg acaattaaag catctaaaat atcaatggcg aaaatatattg 240
 tactcccttg ttttcaaata taaggaaaaa atatatnttt ttaatctcaa atataaaaaa 300
 taactaatat cacattatnt aatattacta tatctctcga aatatcttga tntaattgat 360
 gttctagttt caataactat nttttatcat tataactaaa ttcaatgaaa gataaattaa 420
 anaaatattn taatttaaat aatacaataa ttaactttnt taatactata tcattttttc 480
 tatatttgaa at 492

<210> 13026
 <211> 390
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 13026

ctattcaaac cttttccaga ctatccatac aaacatcaaa agaggatcca tatacagtga 60
 aatcatccat aaacacctct atgcaatttt ctaaaaaatc actgaaaata ctgatcattc 120
 accgctggaa ggtaccangg gcattgcaca ggccgaaagg catcctccta taggcaaaag 180
 tgccgaaggg gtgtggtttt ttctgatcc tgaggagcaa tagtgatttg catataacca 240
 gaanaaccat caaggaaaca atagtgaat ttacctgcca ggcgtttaag catctgttaa 300
 atgaatggca ggggaaaatg tgctcttttg gtaacctggt tcagcctcct atagtcgatg 360

cagactctcc aactgttctg cacccgagta

390

<210> 13027
<211> 320
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 13027

atgtcttatt gagtcccgtc atatctcgag acgctcgaaa ttgaatgttg aagctctgag 60
ccaattcaaa cgacaataac tatttactcg gatgtctgat tgagtcccat aatatactga 120
gagctcttaa attgaatgtt gaagctctca gctaattcaa acgacaatag acttttactc 180
ggatgtctga ttgagtcccg taatatatcg agacactcga aattgaatgt tgaagctctg 240
agccaattca aacgacaata acgttttact cggatgtctg atngagtccc gtaatatatc 300
gagacgctcg aaattgaatg 320

<210> 13028
<211> 386
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 13028

tgtcttgaag tctaaagccg atgaaggaca tctgttaatc acataggcta ttgtgtttgc 60
agcttctccc caaaaggctt ttggcagtc agcacttagc ggcattgcacc tcaacttttc 120
caaaatggtc atattcatte tttctactaa tccattctgc tatggtgtgt gagggactat 180
tatgtgcctt ttgatactg attntctgca aaactcattg aattgctctg aaacaaactc 240
catgccattt tcagtcctta aaactnttag ttntgtacca agttgatttc caataagagt 300
atgtcactct ctgaattttt aaaagcttct aatttgtgtt tcaaacatac agccatactc 360
ttcatgagaa tcatctatga tgatga 386

<210> 13029
<211> 447
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 13029

cttctccatt ccattctgcg tggaaatagt ctctctcggc gtaggaatgg gtgcagttct 60
 atcccagaag aaccacacaa tcgccttctt cagcaaaccc ttctgttcta agtcctctcg 120
 tgcttccact tatgtcaggg agcttgctgc cattaccacc gcctttaaaa agtggagaca 180
 atacttatta ggcaatcctt tcactattct cacagaccac cgtagcctca aagaattaat 240
 aggtcagggc attcaaacac ctgaacagca atgctacctg gcacgattac tatgctatga 300
 ctatacaatt cactatcgty tcggaagatc caatgcagca gtogatgcc tctcacggta 360
 gccaaaagaa gcccacttg gcaatatttc ttctaccatt catacttntc tttttttgaa 420
 gaactaaaca acaactctca caatccc 447

<210> 13030
 <211> 338
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 13030

ttaagcaatt canatggtea taactntcac tcggaggctg tatttatgcy cataatatat 60
 cgagacgctc gaaattgaac aatggaagct cttgagcaat tcaaattggtc ataacttttc 120
 acatggaggt tggtttatgc gcataatata tctagacgct cgaaattgaa caatggaagc 180
 tcttgagcaa ttcaaattgt cataacttgt cactcggagg tgggattcag gcgcataata 240
 tategagacg ctcgaaattg aacagtggaa gctcttgagc aattcaaatg gtcattactt 300
 ttcactcgga ggtccgattc aggcacataa tatattga 338

<210> 13031
 <211> 511
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 13031

tttgagcgtc tggatatatt acgggactca ttcatacatc cgagtaaaag gttattgtcg 60
 tttgaattgg ctcatangtt gaacattcaa tttcgagcgt ctatgatata tacgggactc 120
 aattagacat ccgagtaaaa agtcattgtc ctttgaattg gatcagaggt tcaacattca 180
 atttcgagcg tctcgatata ttacgggact caaccagaca tccgagtaaa acgtttattgt 240

cgtttgaatn tgctcagagg ttcaaaatc aatttcgagc gtcccgatat attacgtcac 300
 ggaatcggac atccgagtag aaagttattg tcgtttgaat tggtcagag gttcaacatt 360
 caatttcgag cgtctcgata tattaaggga ctcaatcaga catccgagta aaaagttatt 420
 gtcattcgaa tatgtcmeta gcttaaacca ttcaattcga gcgtctcgat atattatggg 480
 actcaatcag acatccgagt anaaaagtat t 511

<210> 13032
 <211> 447
 <212> DNA
 <213> Glycine max

<400> 13032
 tgcttttaca taccctgcag aaatagatgg tatttcacat tagccttacc cctcttgctt 60
 gcgagaggtt cgttttttct ttgtcatgc aggtttttat aggcacttta tcaaggaatt 120
 gtgcaaaatg gcccttcac tatccaatct gctgcaaaag gaggcggagt ttgattttga 180
 tgaccgatgc aaagaggctt ttgattgact caagtgtgtg gtgactacca cccctatcat 240
 tcaagaacct gattggatag ccccatctga gctaattgtc gatgcacca attacacatt 300
 gggagttgcc cttgctcata agattgataa gctgccttgg gtgatctact atgcttcag 360
 aactttgat gctgctcaag aaaattacac tagcacagag aatgagctat tagcgatagt 420
 ttttgcctt gagaaatttc gtcatat 447

<210> 13033
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 13033

agctngtttc aaattaagat cagtataaat tagtatatct cttgcgtcat gtccatacat 60
 nttcaaaact taaagtcatt aatcatatct tcgaatgcgt ctgtatatat attgaaatat 120
 taagtgccat tgacaaattt ttataaaaat tctaaattga aggtctgaat taacccatca 180
 aaattcattc catacaagaa tccatctaaa tctatttact ttgaataacc aaaagacatt 240
 ttaagagtgg tcagaaatct catttgaata ccaacagata ttgttgctg aaaaaaaat 300

ctttattgtc gtaatcgaat accacacgat ttgtttatat tctatataac tcttgattga 360
 ataccacaag actttttaat cataaaaaag tttttaaaat tccttgaaat ttaatccatc 420
 ccacccctg 430

<210> 13034
 <211> 431
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 13034

ntntagcaat tcaaatgggc ataacgtttc actcggatgt cggattcaag cgcataatat 60
 atcgagacgc tcgaaattga acaatggaag ctcttgagca attccaatgg tcataacttt 120
 taactcggag gtccgattca ggcccataat atctcgagac gctcgaaatt gaacaatgga 180
 agctcttgag caattcaaat tgtcataact ttctactcgg aggtcggatt cacgcacata 240
 atatttcgag acgctcgaaa ttgaacaatg gaagctctcg agcaattcaa atggtcataa 300
 cttttcactc ggaggtccga ttcaggcgca taatatatcg agacgctcga aattgaacaa 360
 tggaagctct cttagcaattc atatggtcat aacttttcac tcggatgtcc gattcacgca 420
 cataatatat c 431

<210> 13035
 <211> 377
 <212> DNA
 <213> Glycine max
 <400> 13035

agcttattgt cgattgaatt tgctcaaagc ttctgttctg aatttcgagc atctccatat 60
 actacgggaa acaatcggac atccgagtaa aaaggttttg ttgtttgaat tttctaagag 120
 gttatgattt caattttgag cgtctcgata tattacgaga ctcaatcagg catccgagta 180
 aaaagttatt gtcgttagat ttttcttaga gcttctattt cogattatga gcgtctcgat 240
 atattacgag attcattctg acatccgagt aaaaagttat tgctgtttga ttttgcataa 300
 agcttctggt atgaatttcg agtgtctcga tatactacgg gacacaatcg gacatccgaa 360
 taaaaagtta ttgacat 377

<210> 13036
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 13036

```
agcttatata tatatataga tatatttttt acttattaaa actaaatata attntgatat 60
gngttggttt atgtaatttt gaaataaaaa tatatagaaa gataaaactt gaaagggttat 120
atatagaaag ttcataaagt cgtaaaagat gaatatataa aaatgcggtca aaagtacatg 180
atgaagatag ggtgaacaga agttgggtta agtgaatttt tgacaacgga aacccaaaata 240
ataaaataaa aaaaaaaga aaaaagctat ggaaaacttg cgtgtcccca cagctatggt 300
ttgtagtctg atgcagagct gctgagataa ggatcatcaa atcgaatata tttctccata 360
ctgccttctt ctctgactat atggattcca attgctttaa tgactgagct ctctaactct 420
aacacacct 429
```

<210> 13037
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 13037

```
tcttagtctc acctgatgaa gatgaattcg tgtgttactt tatgcactcc tctaatagaca 60
atggcatcat ttctggcact aaattgttgg gagttggaag tcattttctc aattaaattt 120
ttggcttcag caggggtcat ttctccaagg gctccaccac tagcaacatc tatcatactt 180
ctctccatgt tgctgagtcc ttcataaaaa tattggagaa gaagctgctc tgaaatctgg 240
tggtgagggc aactggcaca taatttttta aatctctccc agtattcata taagccctct 300
ccactgagtt gtctaatacc tganatatcc tttctgatgg tcgtggctct ggaagcangg 360
aaattttntt ccaagaatac tctcttgagg tcatcctagc tcatgatgg 409
```

<210> 13038
 <211> 450
 <212> DNA
 <213> Glycine max

<400> 13038